

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of:

Applicants : Mark C. Schmidt et al.
Application Serial No.: 10/630,622
Filing Date: : July 30, 2003
Title: WIRELESS LASER SCANNING BAR CODE SYMBOL
READING SYSTEM, WHEREIN THE RF-BASED
TRANSCIVER CHIPSETS WITHIN THE WIRELESS HAND-
SUPPORTABLE UNIT AND BASE STATION THEREOF ARE
AUTOMATICALLY DEACTIVATED AND...
Examiner : n/a
Group Art Unit : 2876
Attorney Docket No. : 108-194USANB0

Honorable Commissioner of Patents
and Trademarks
Washington, DC 20231

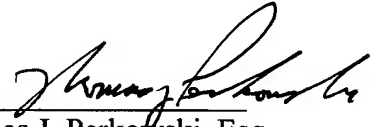
SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith please find One Hundred Sixty One (161) sheets of Formal Drawings to be filed in the above referenced Application.

Respectfully submitted,

Dated: March 1, 2004


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Reg. No. 33,134

Date: March 1, 2004

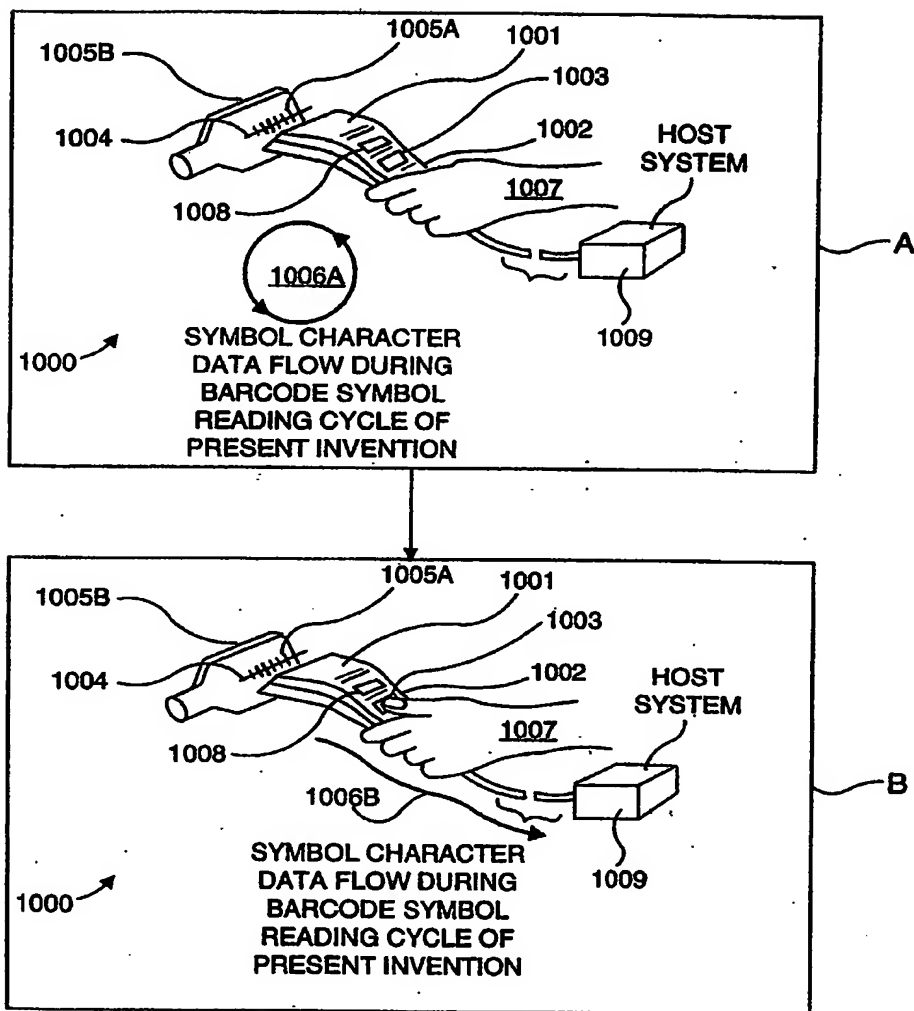
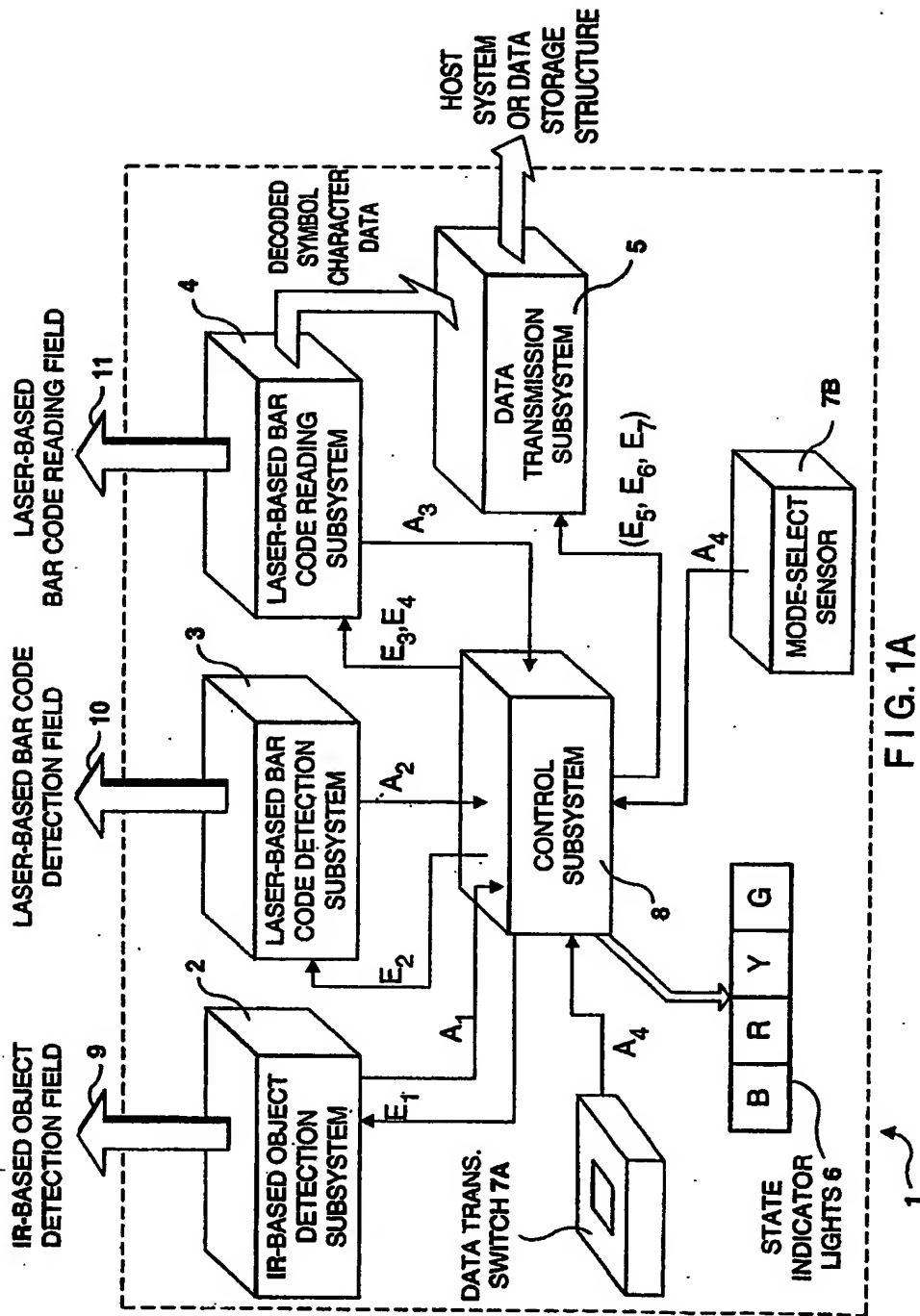
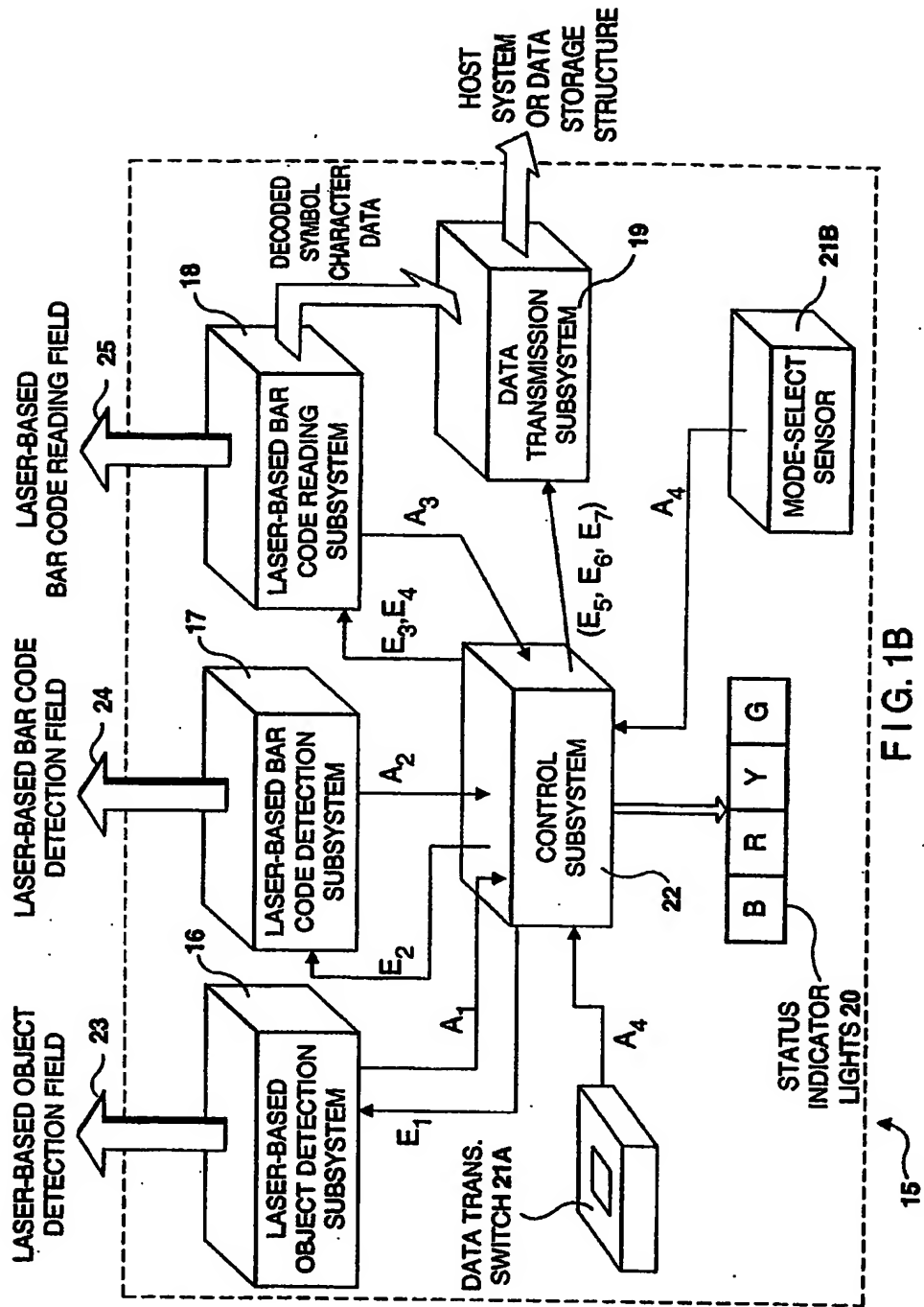


FIG. 1





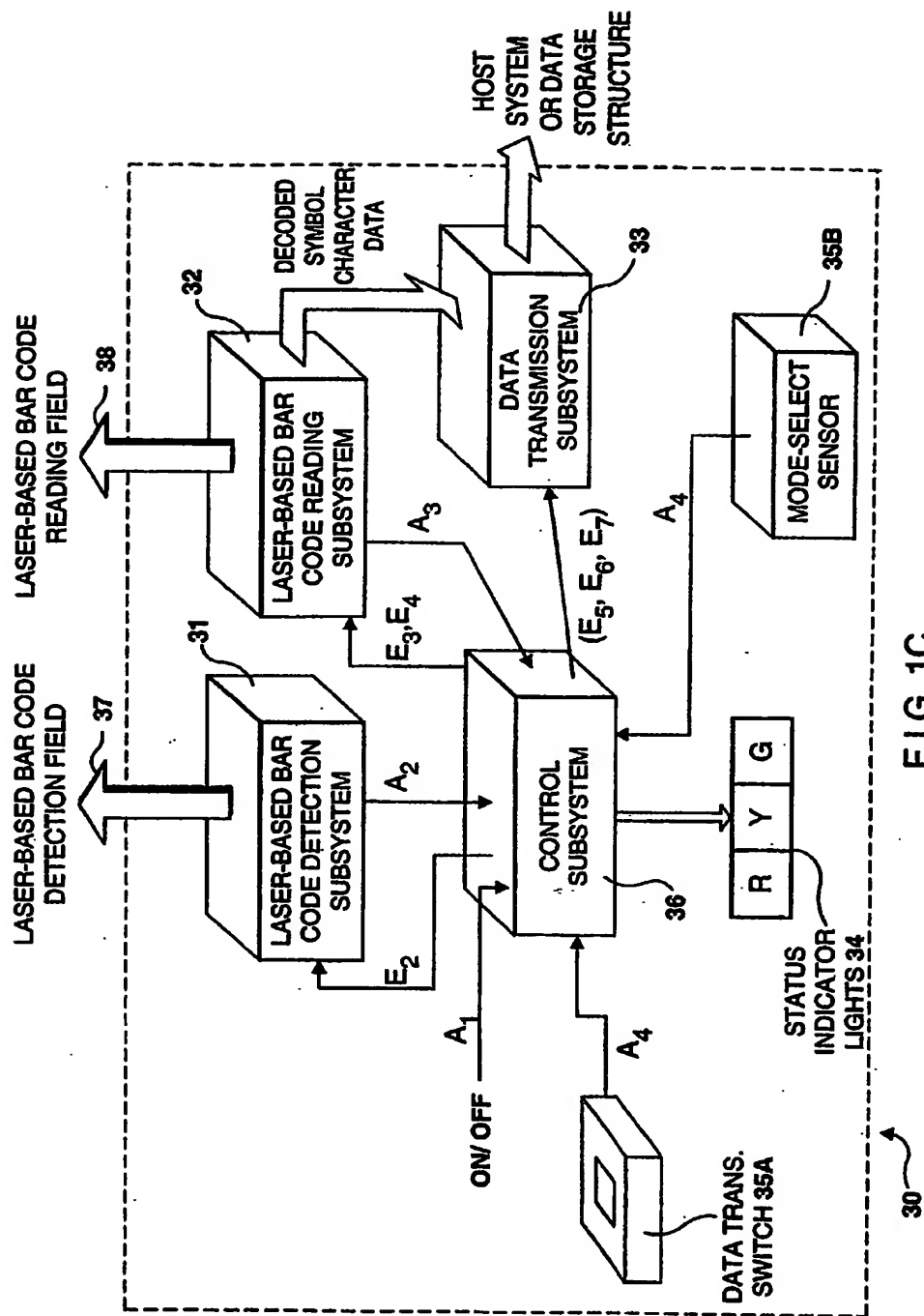


FIG. 1C

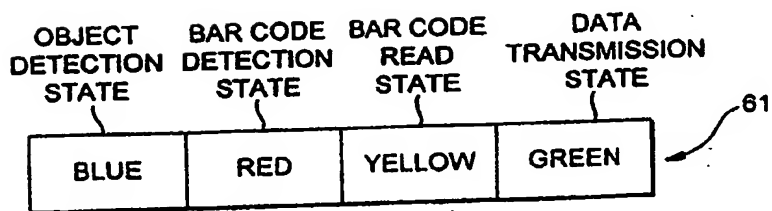
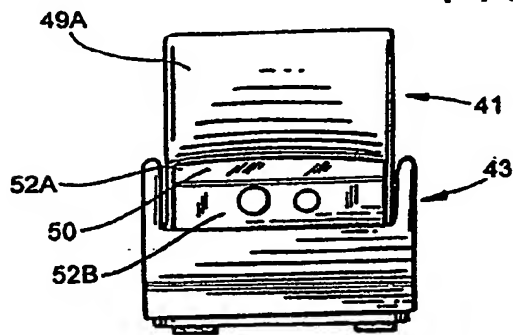
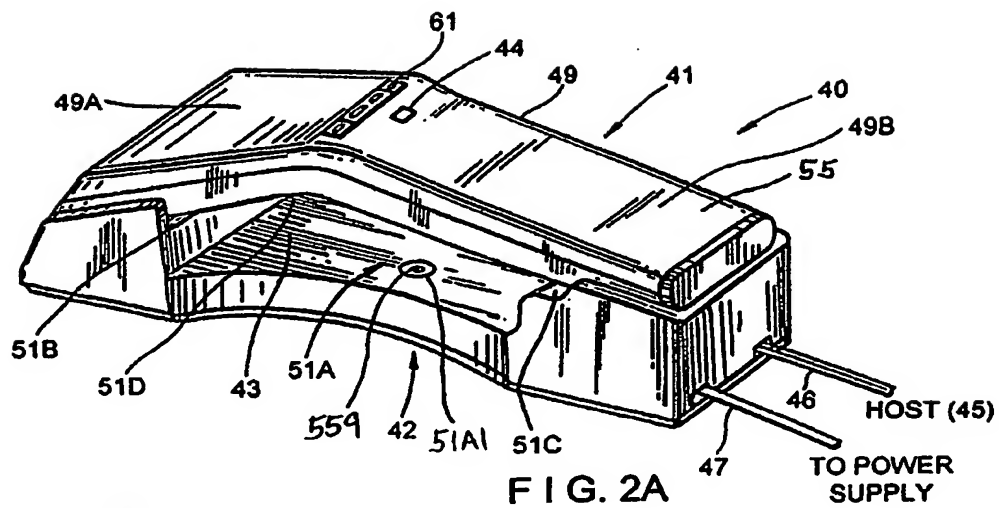
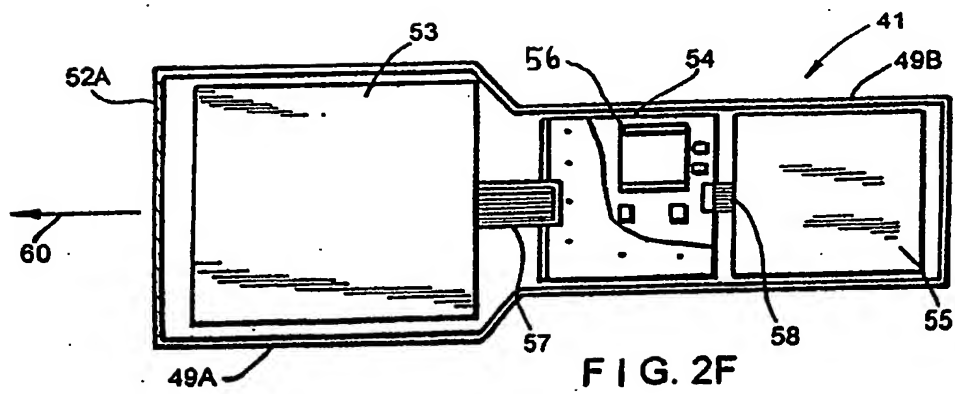
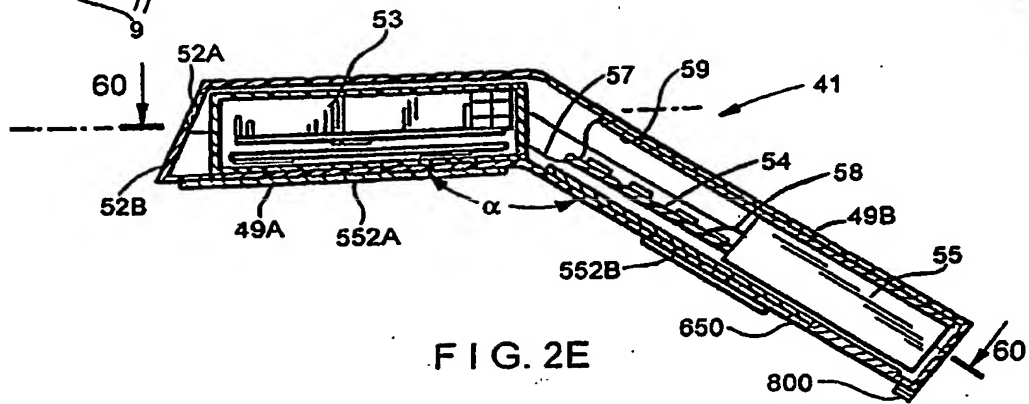
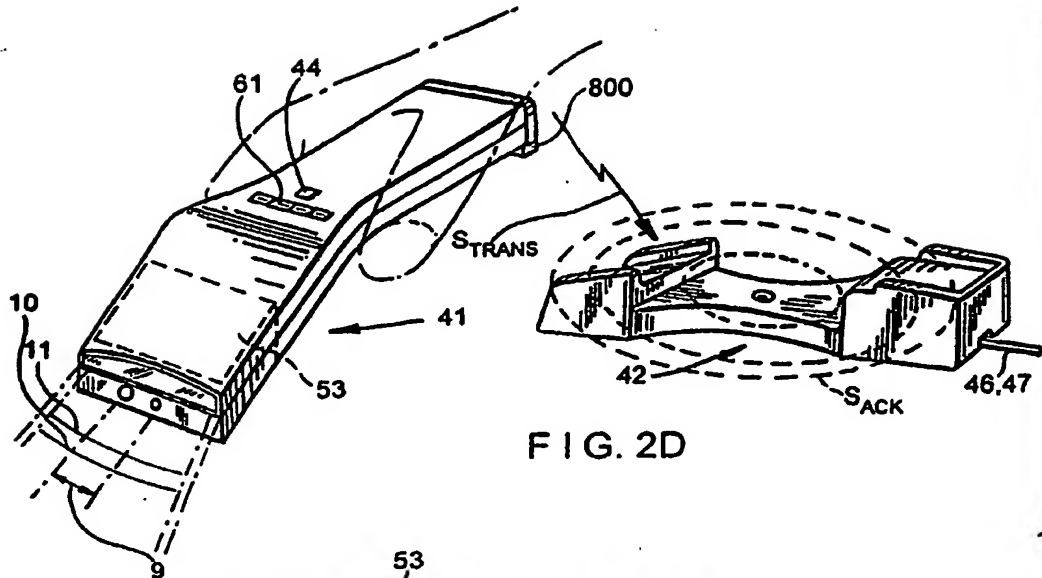
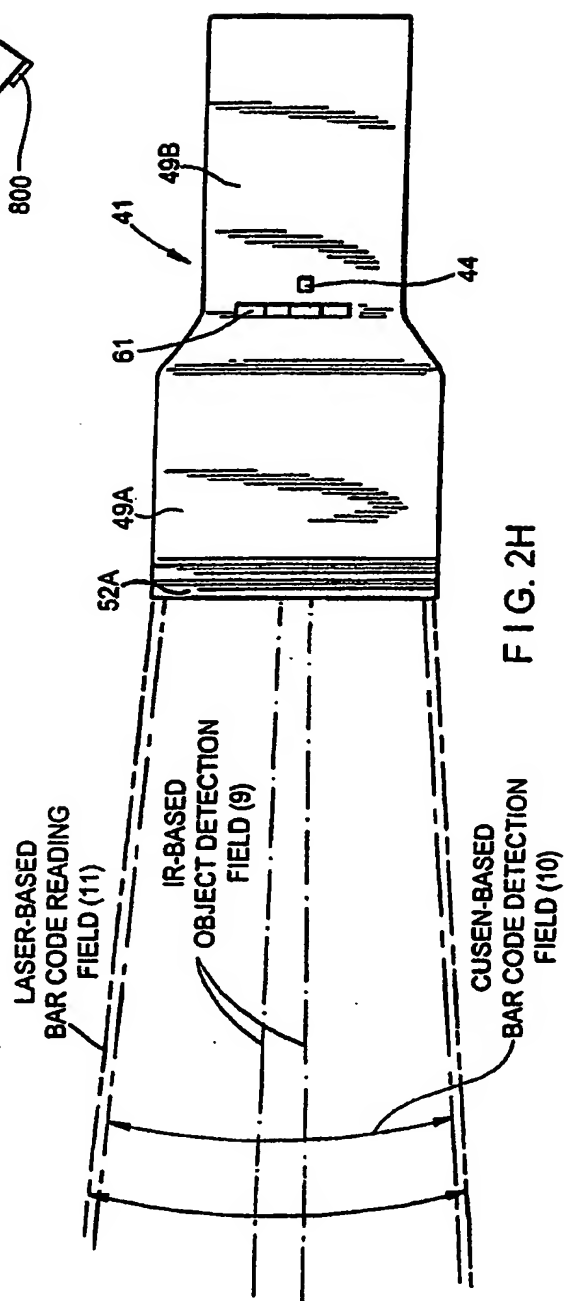
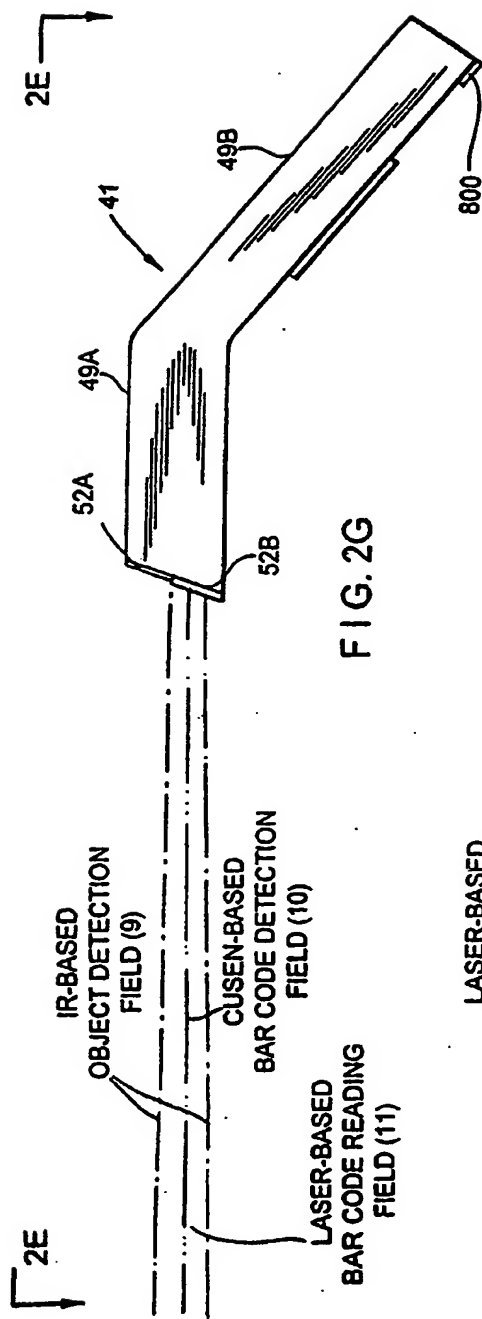
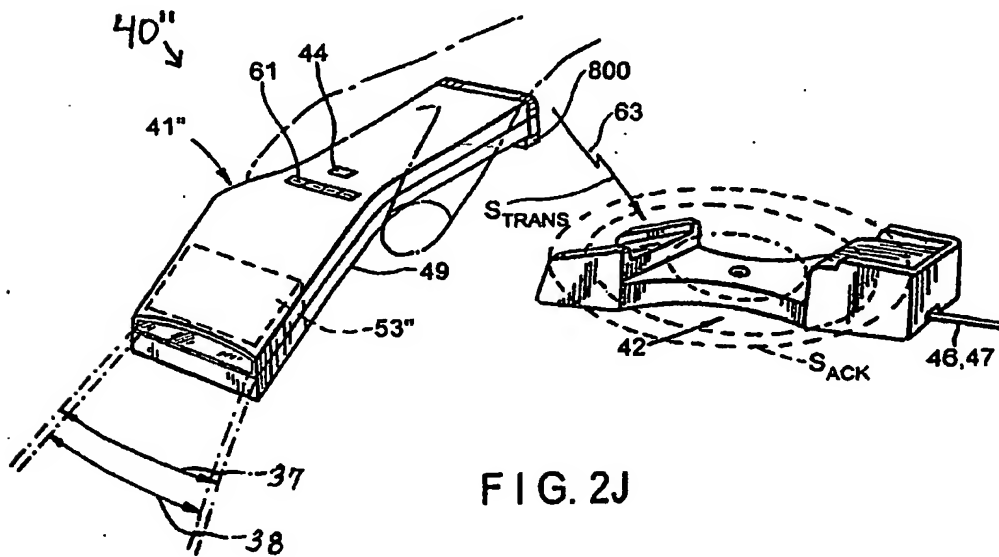
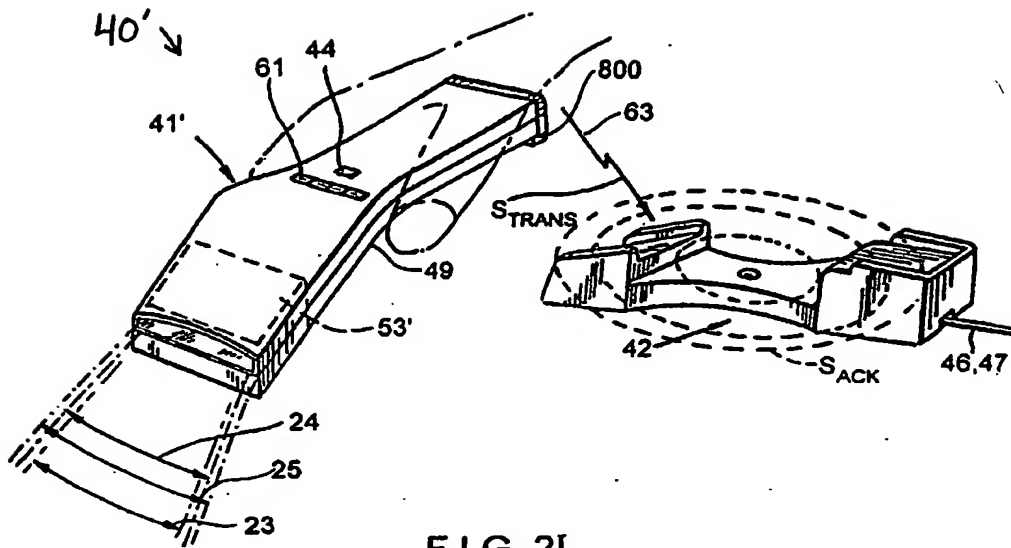
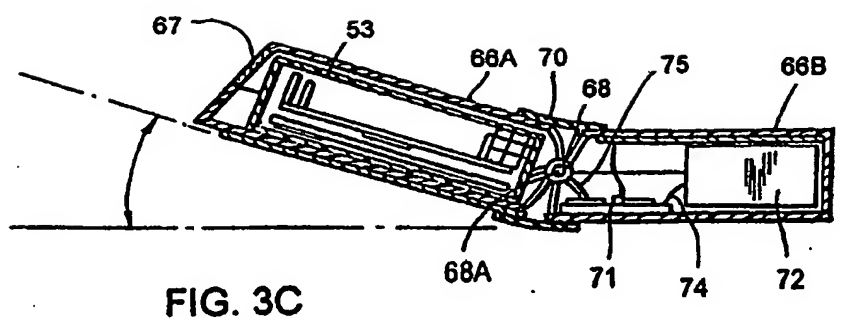
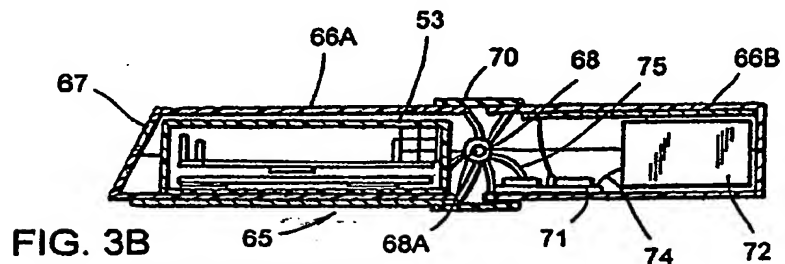
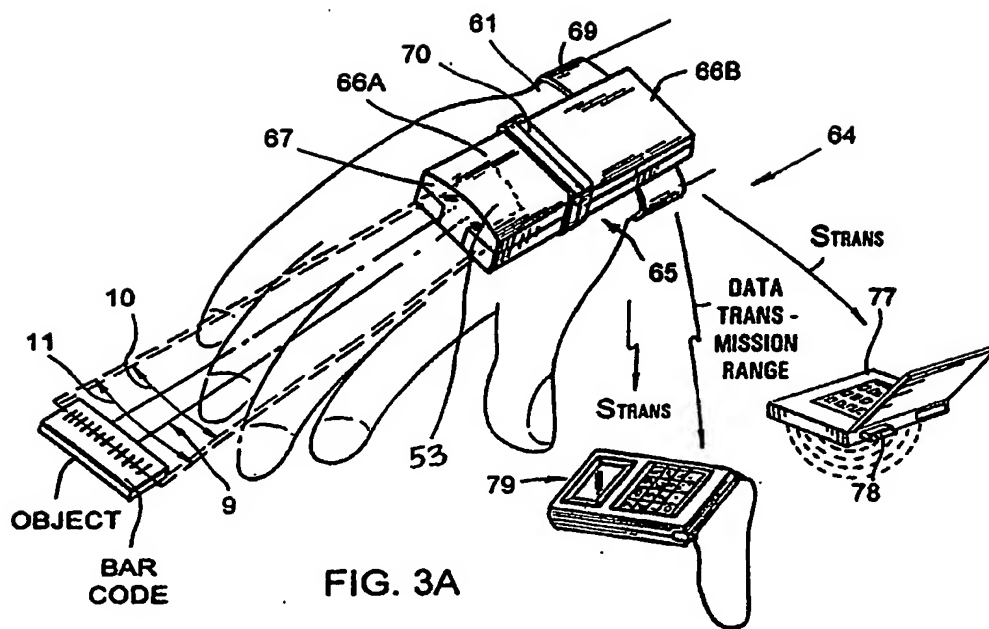


FIG. 2C









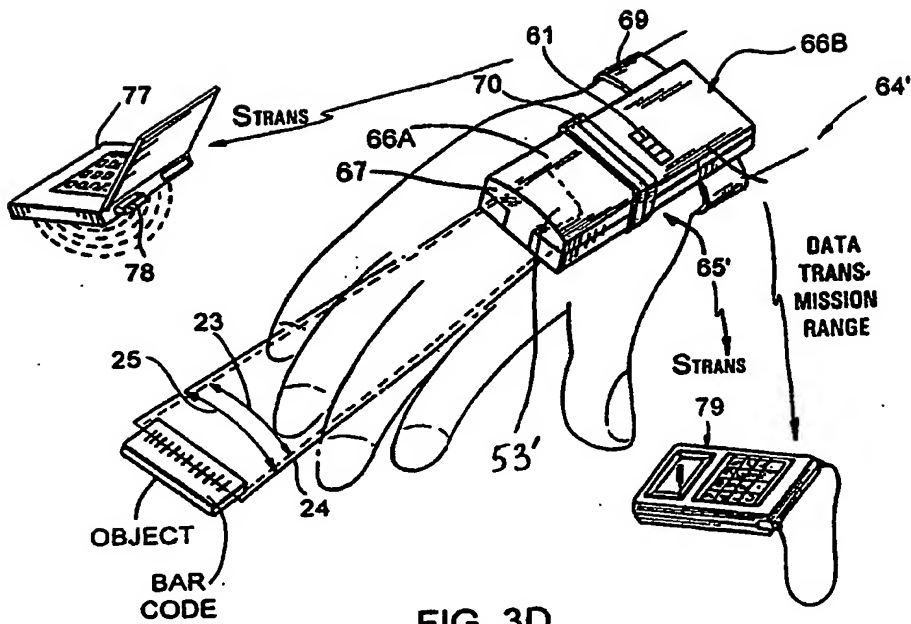


FIG. 3D

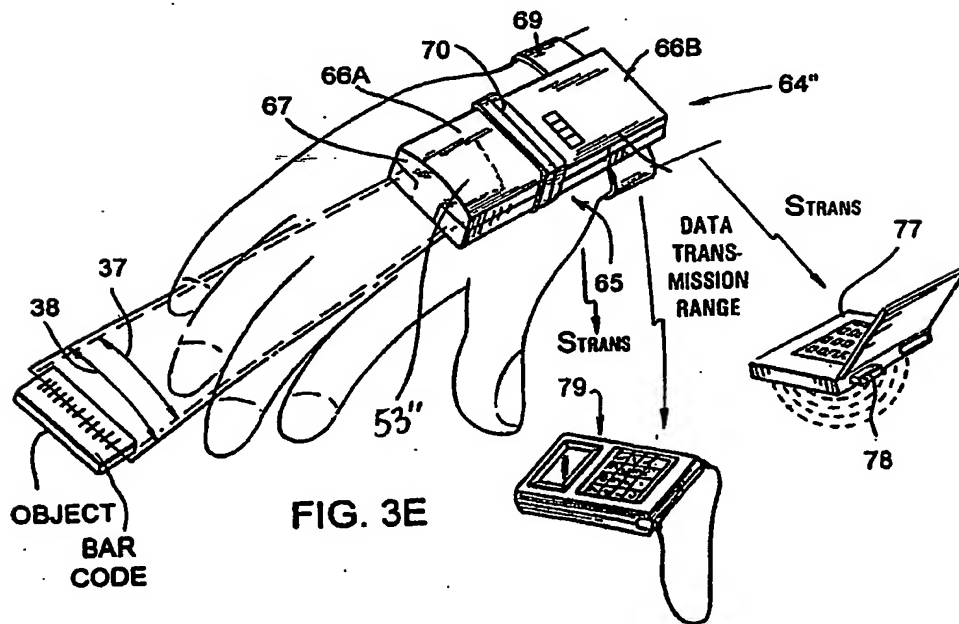
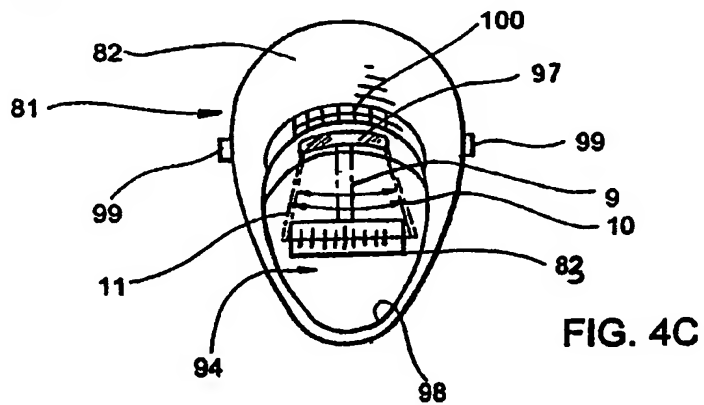
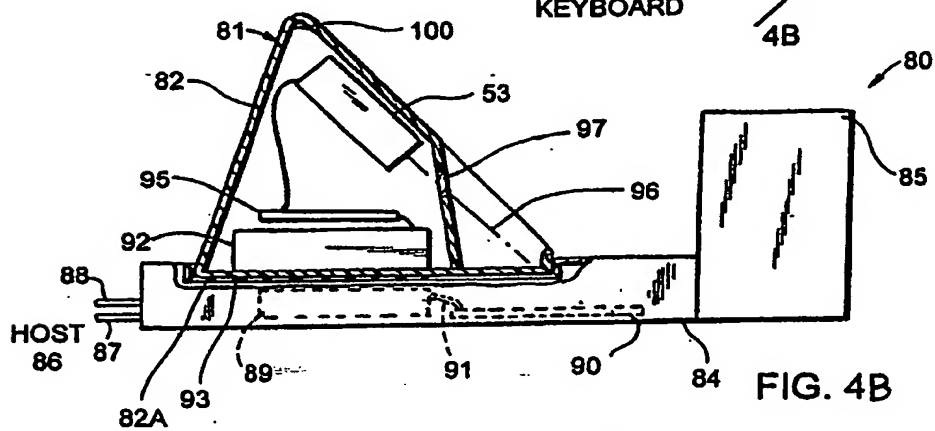
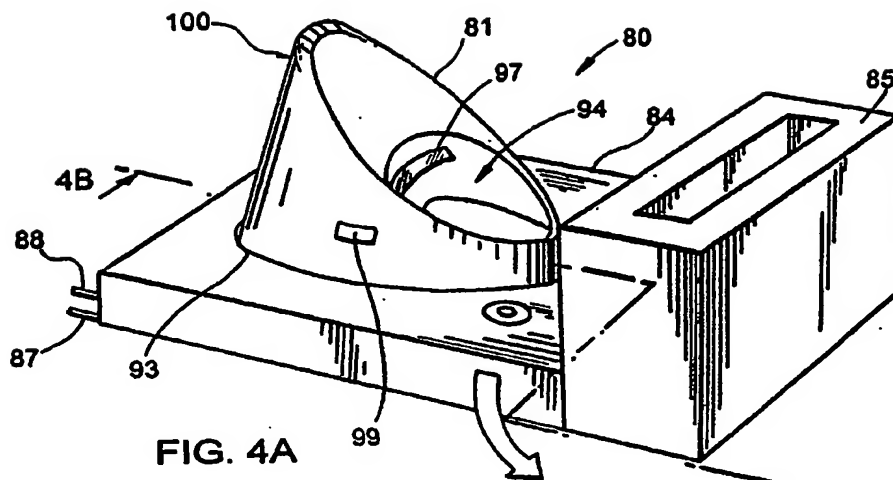
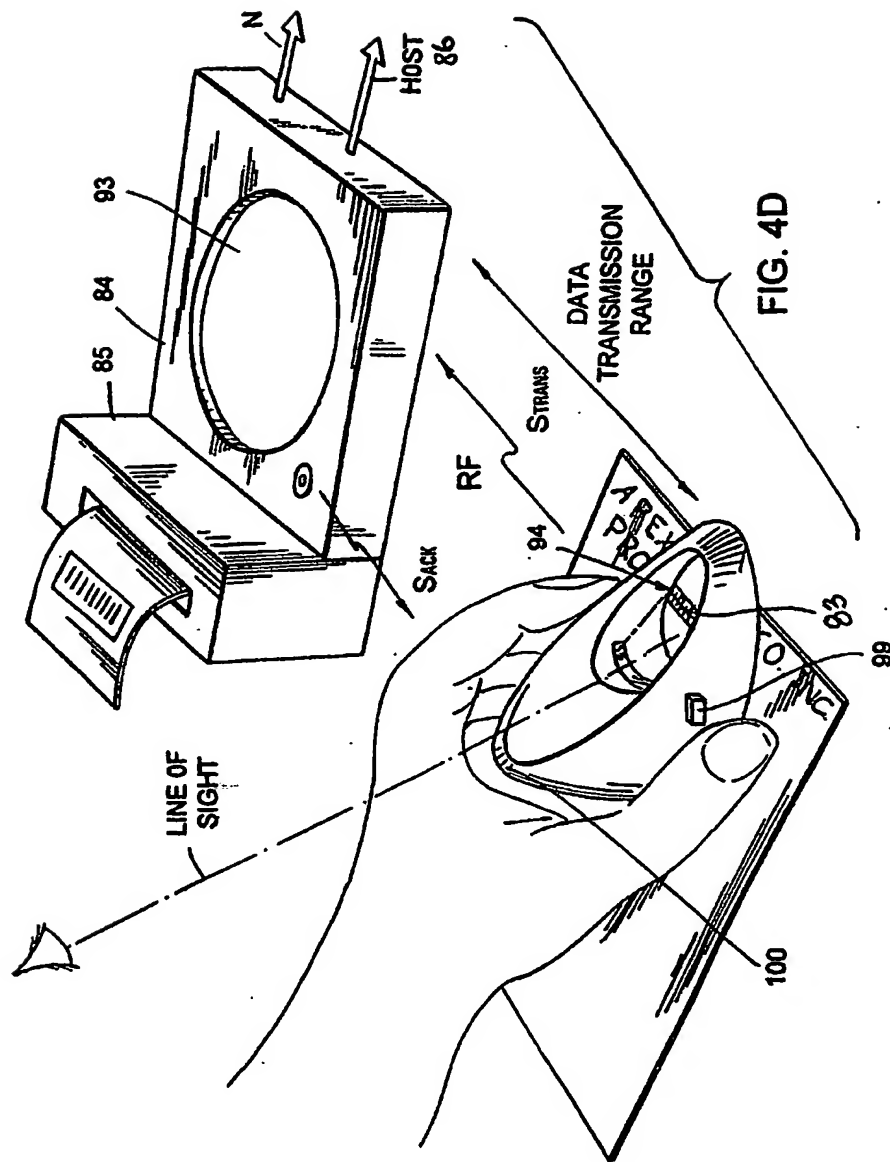


FIG. 3E





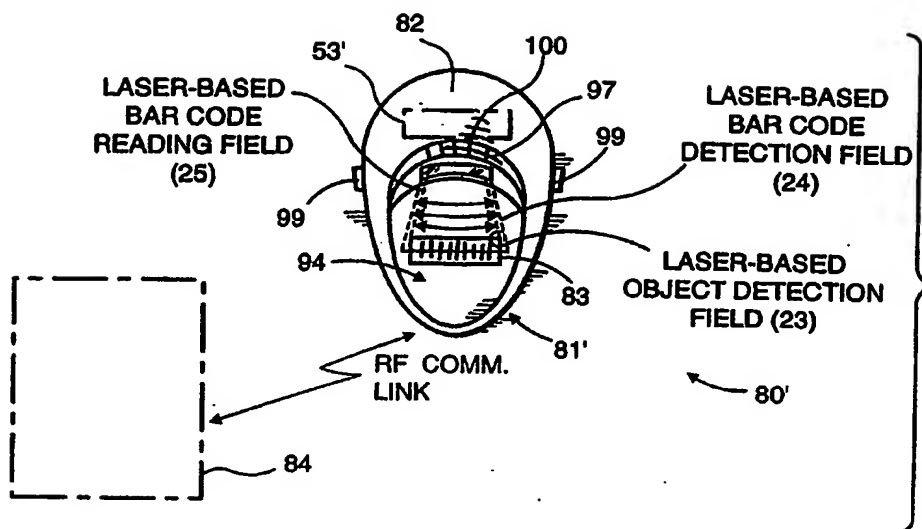


FIG. 4E

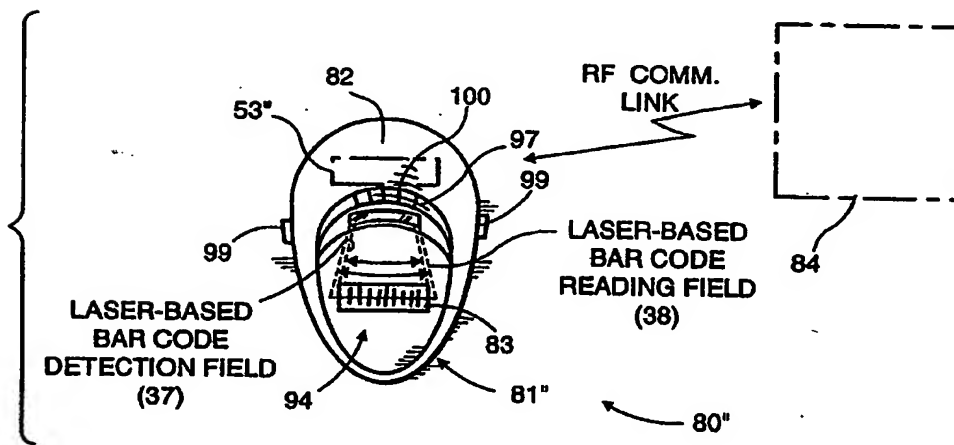


FIG. 4F

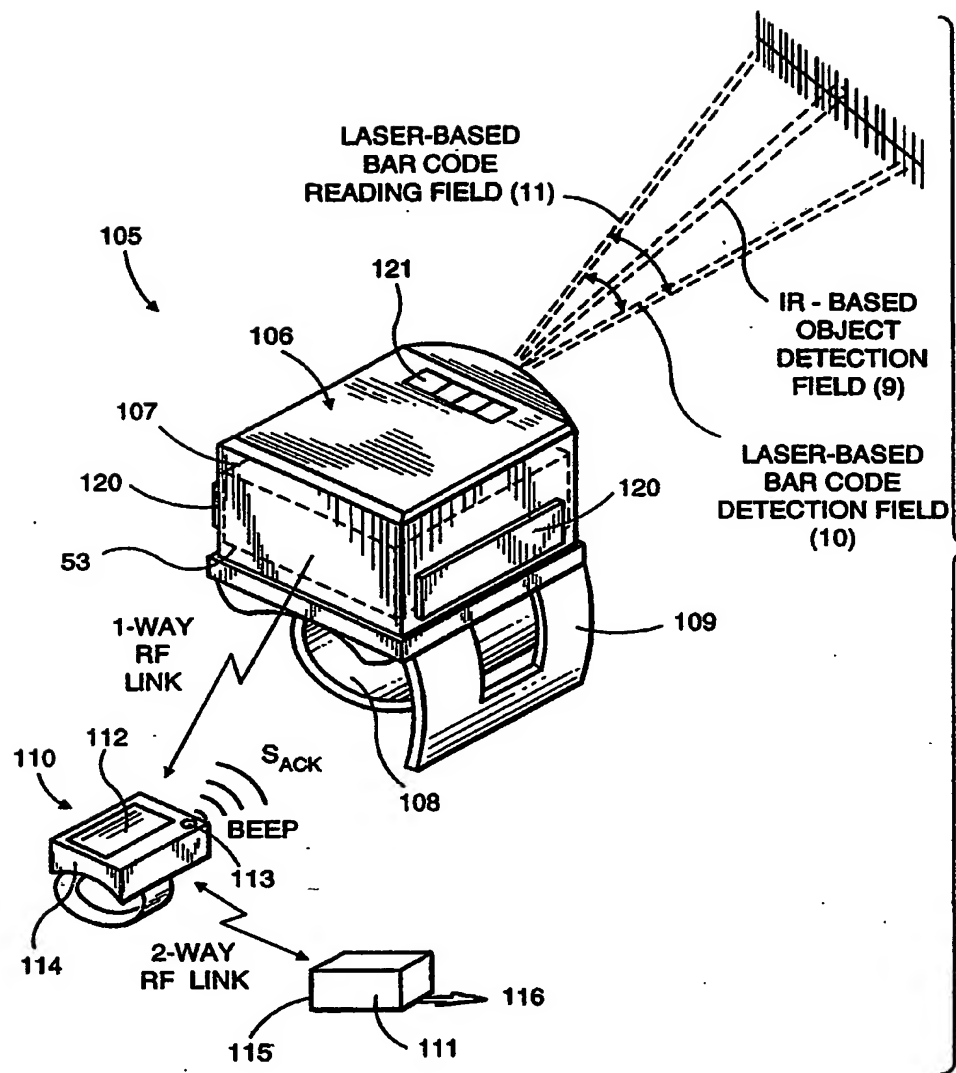


FIG. 5A

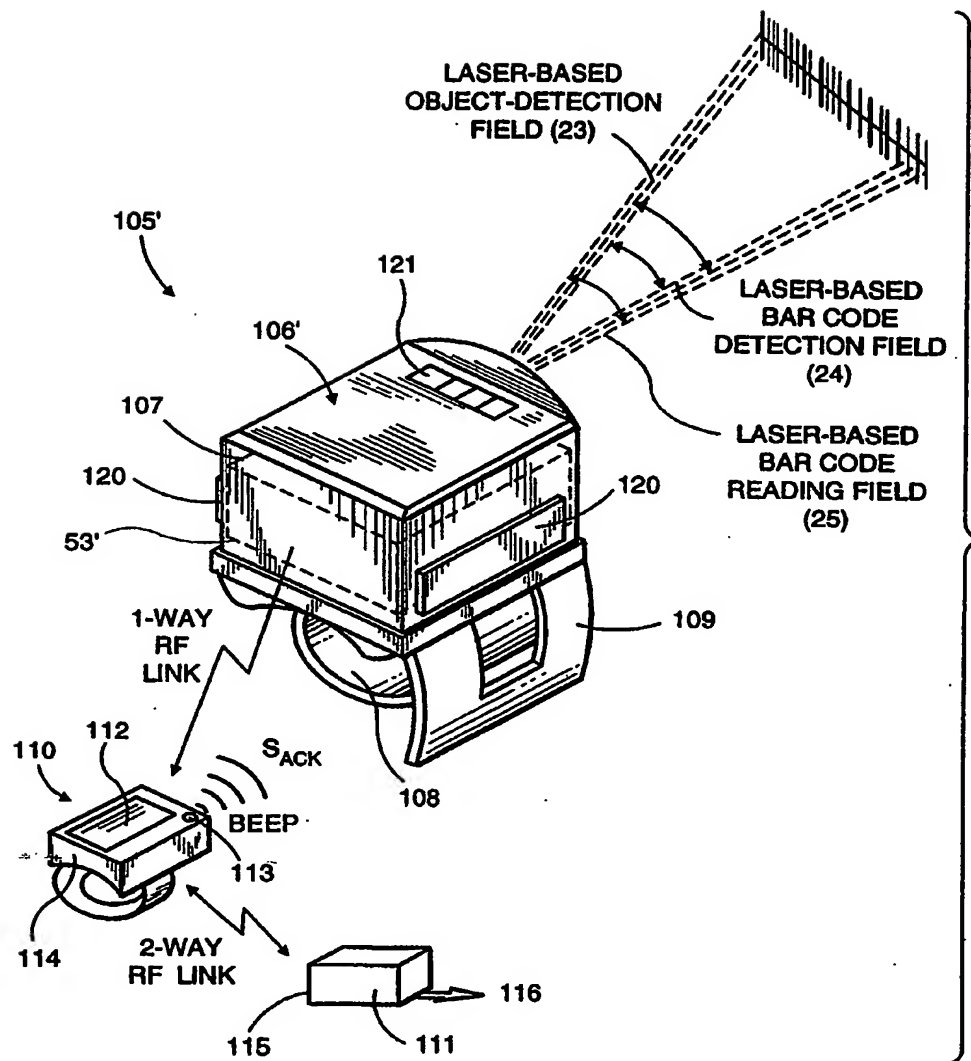


FIG. 5B

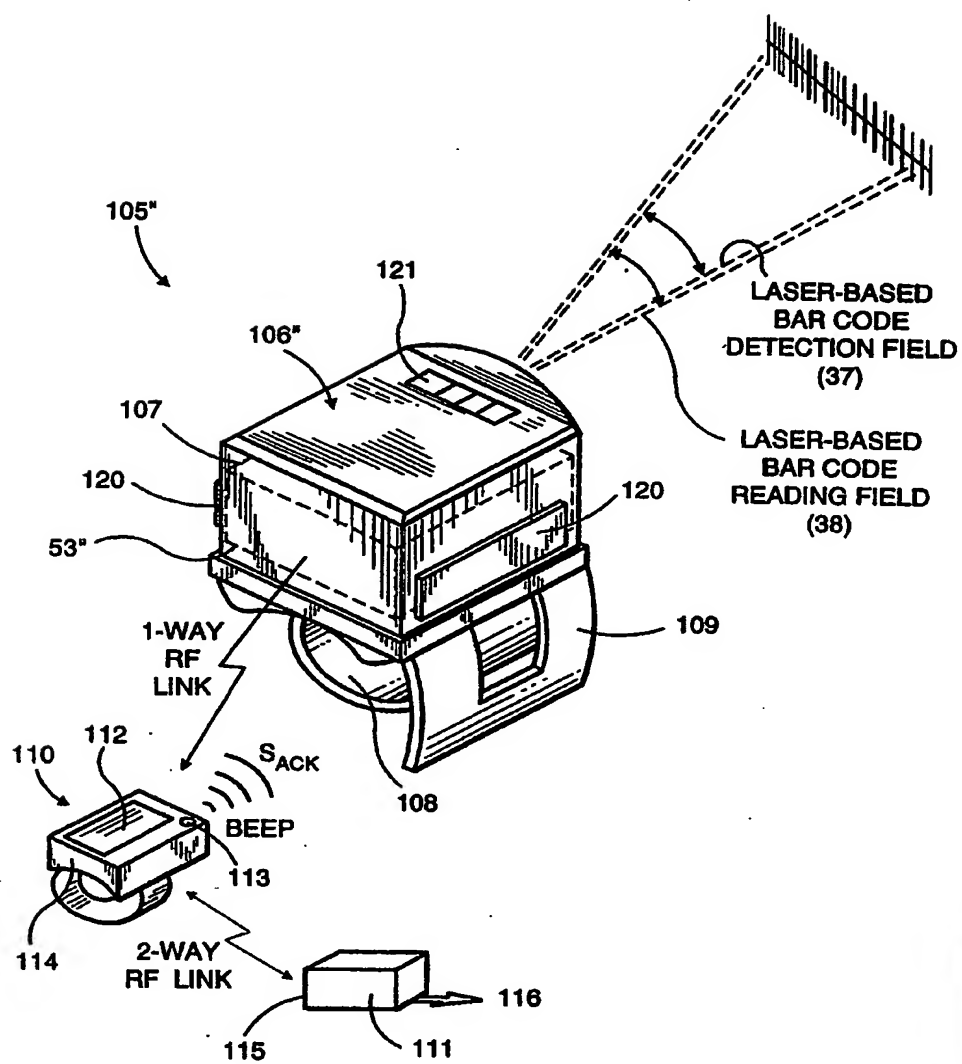


FIG. 5C



FIG. 5D

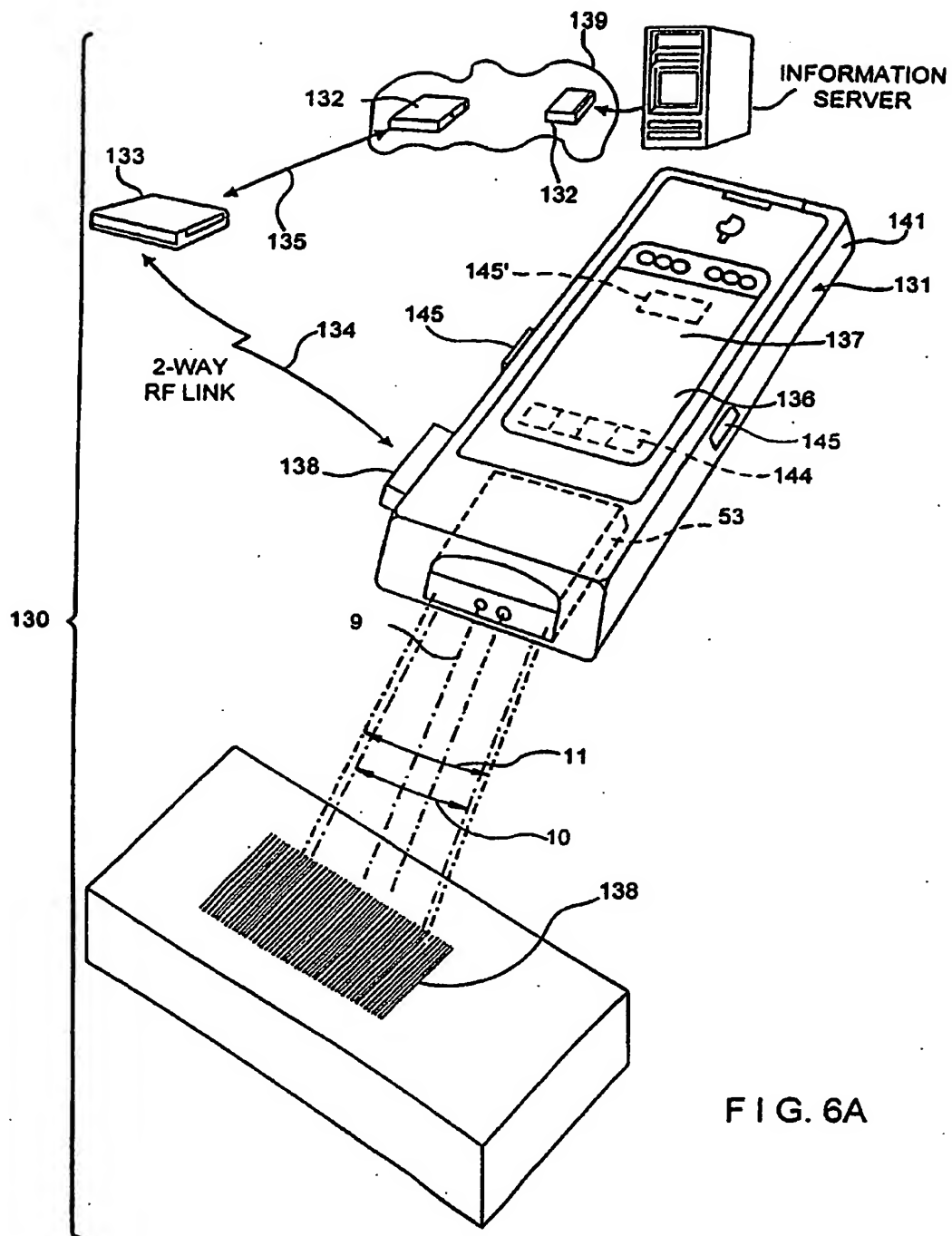


FIG. 6A

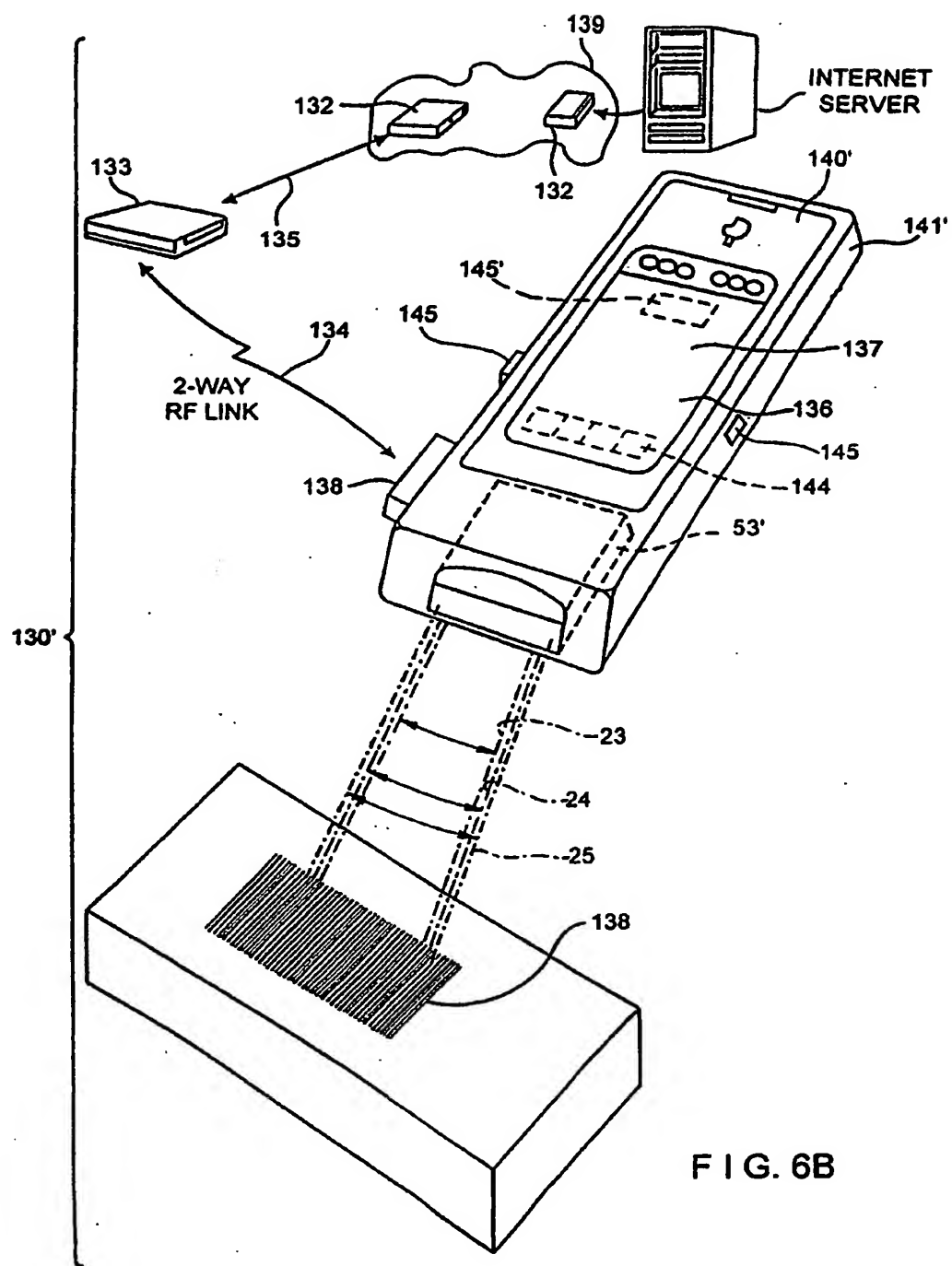


FIG. 6B

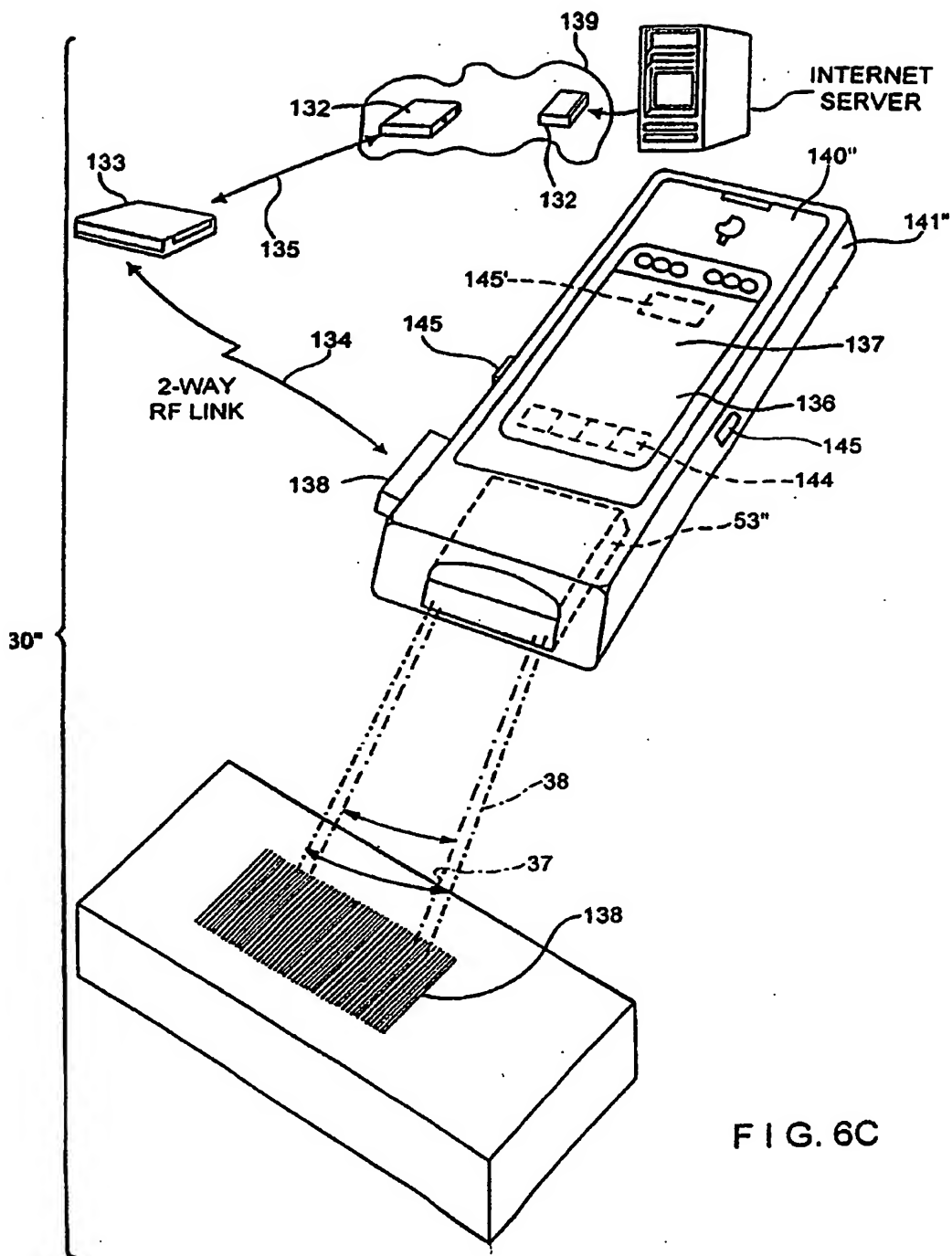


FIG. 6C

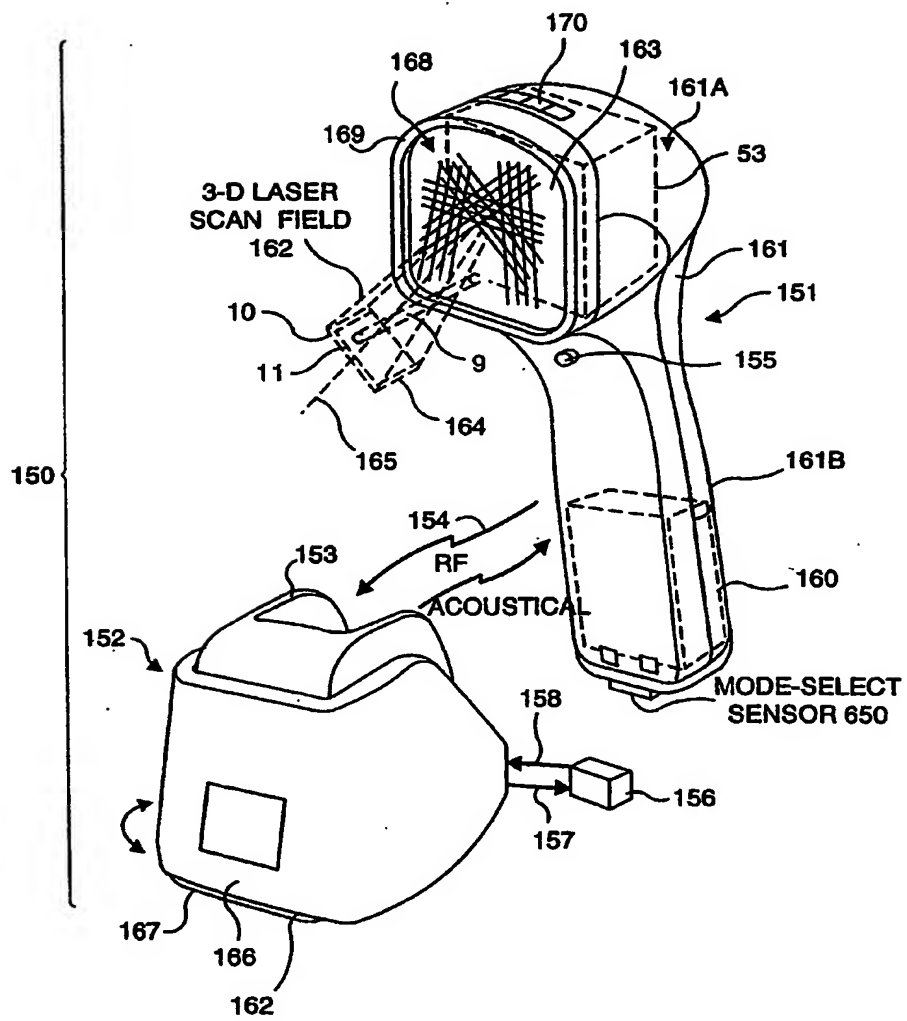


FIG. 7A

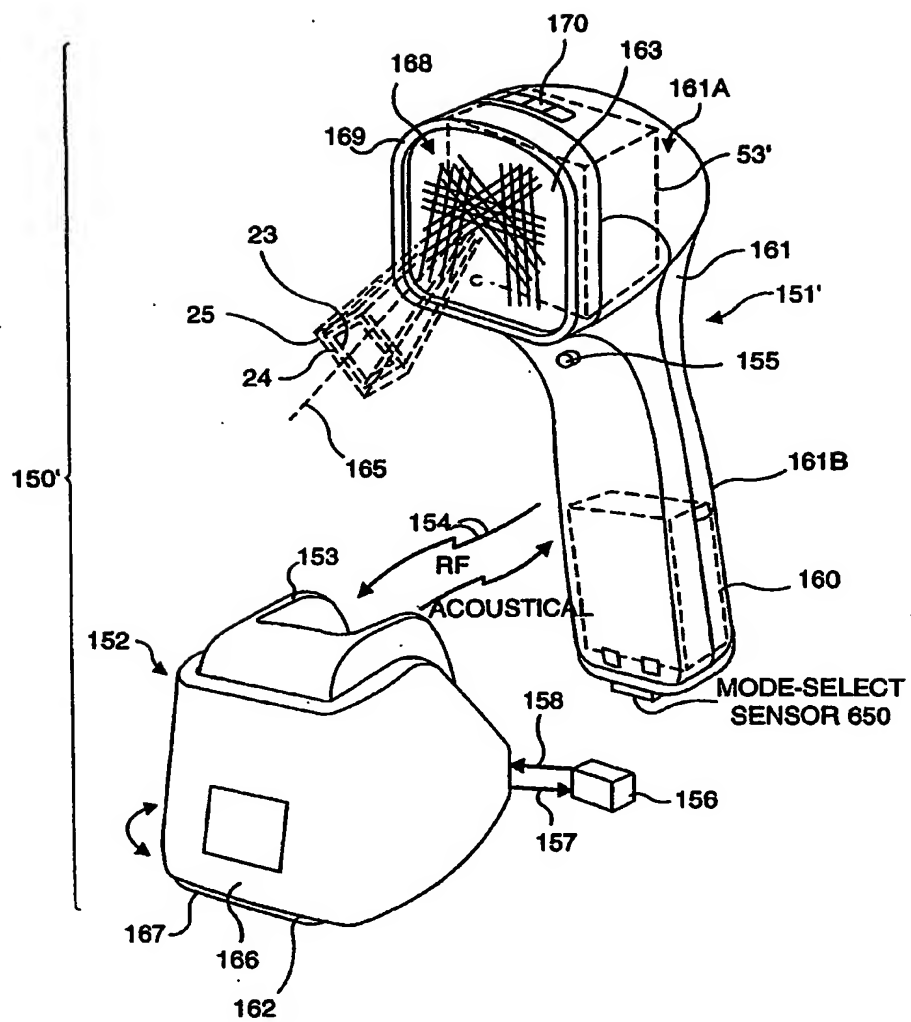


FIG. 7B

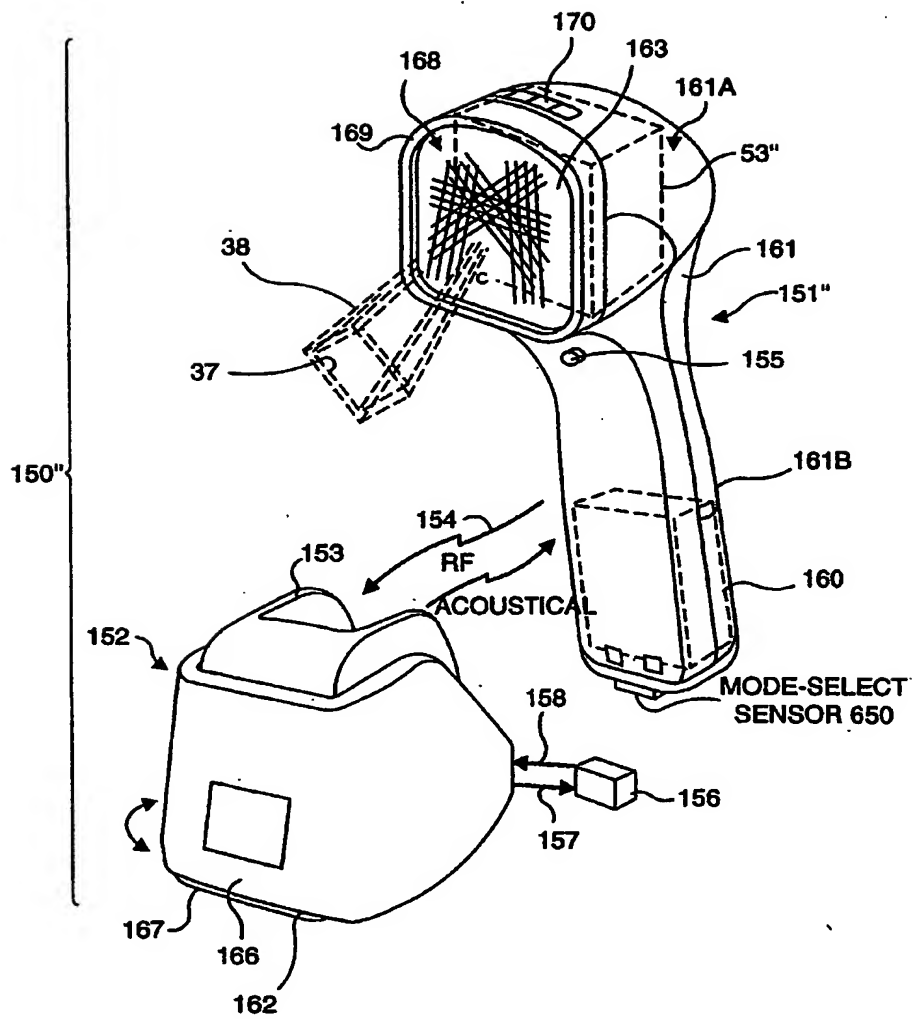


FIG. 7C

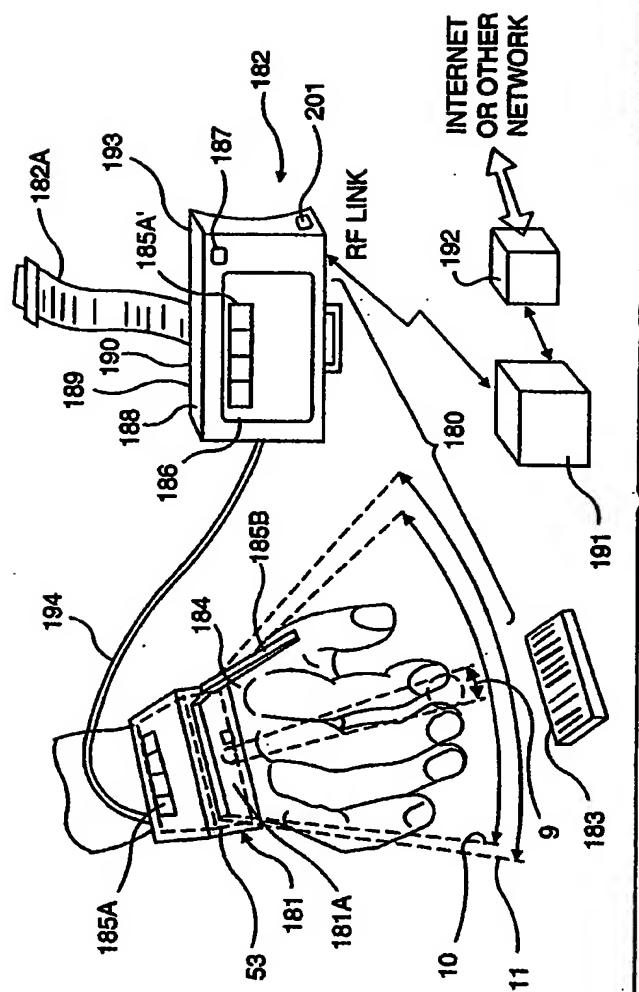


FIG. 8A

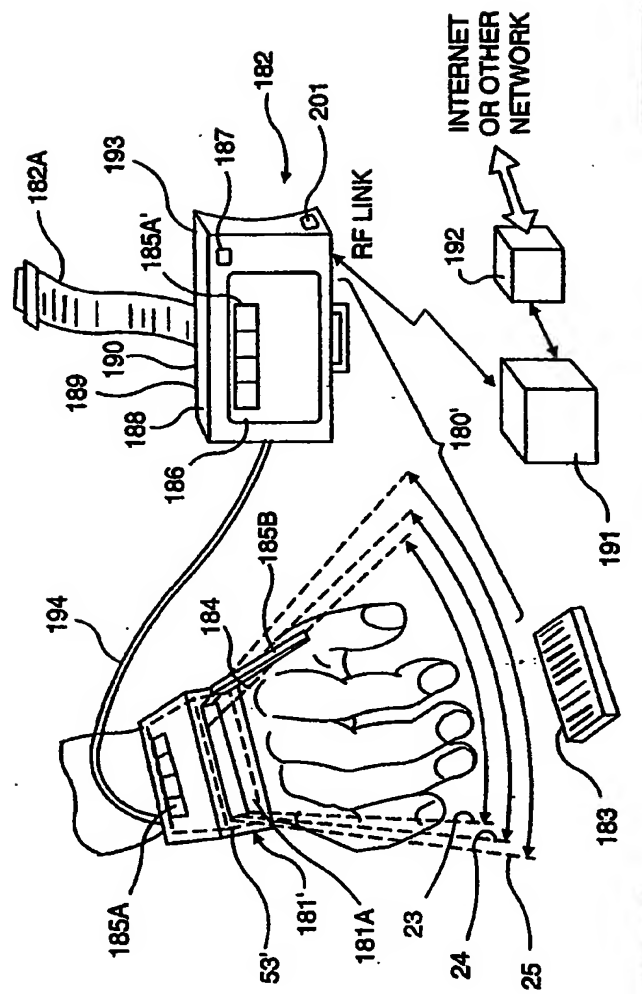


FIG. 8B

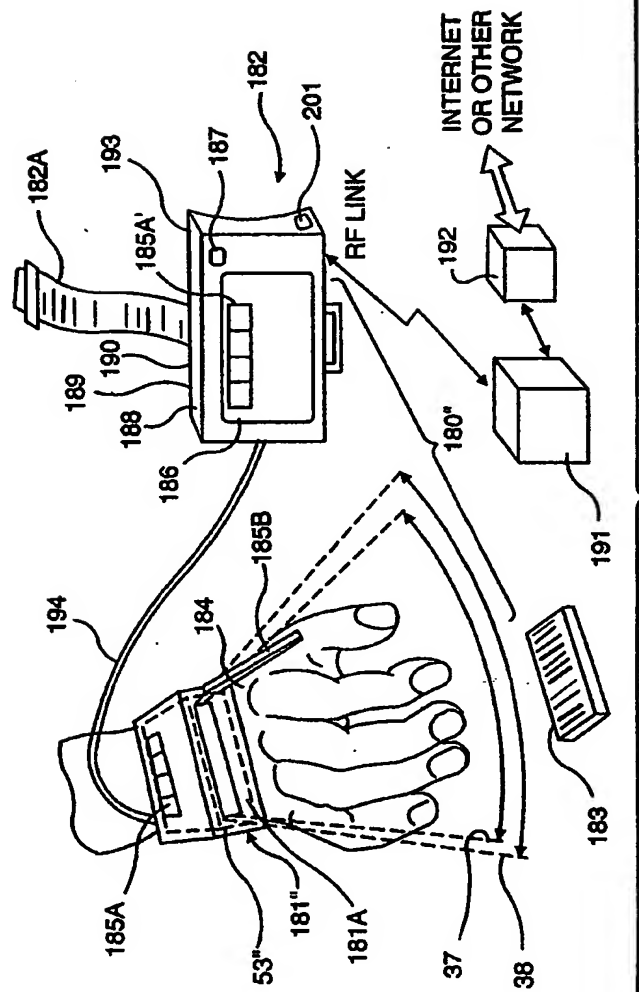


FIG. 8C

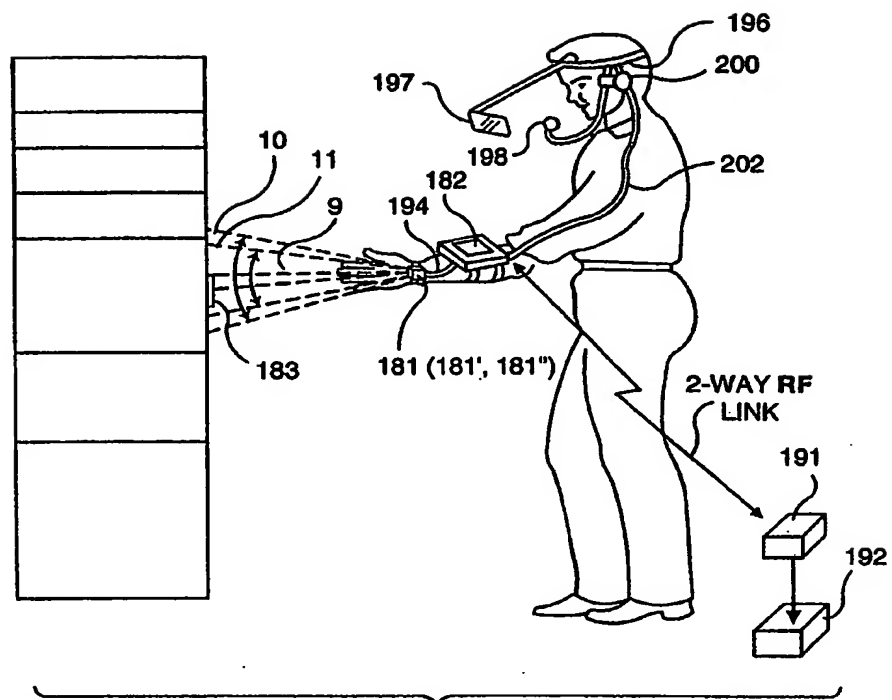
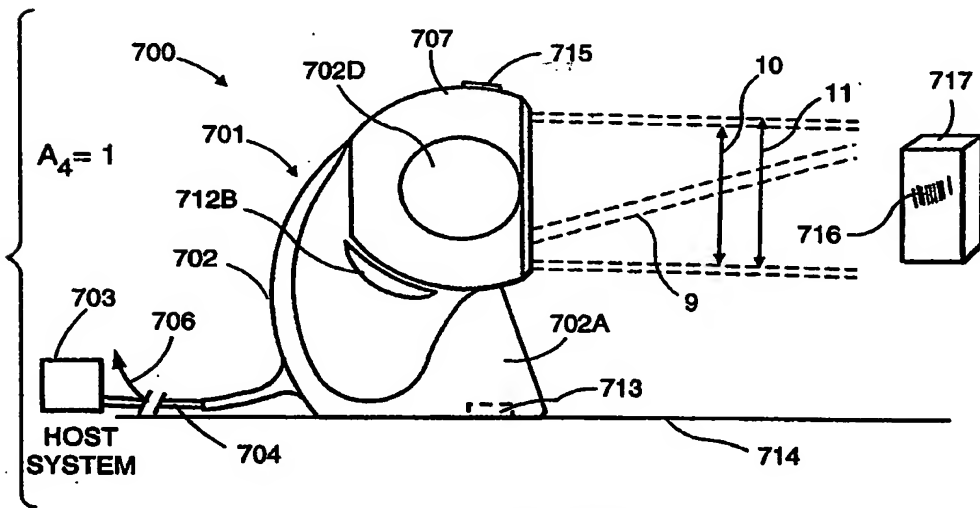
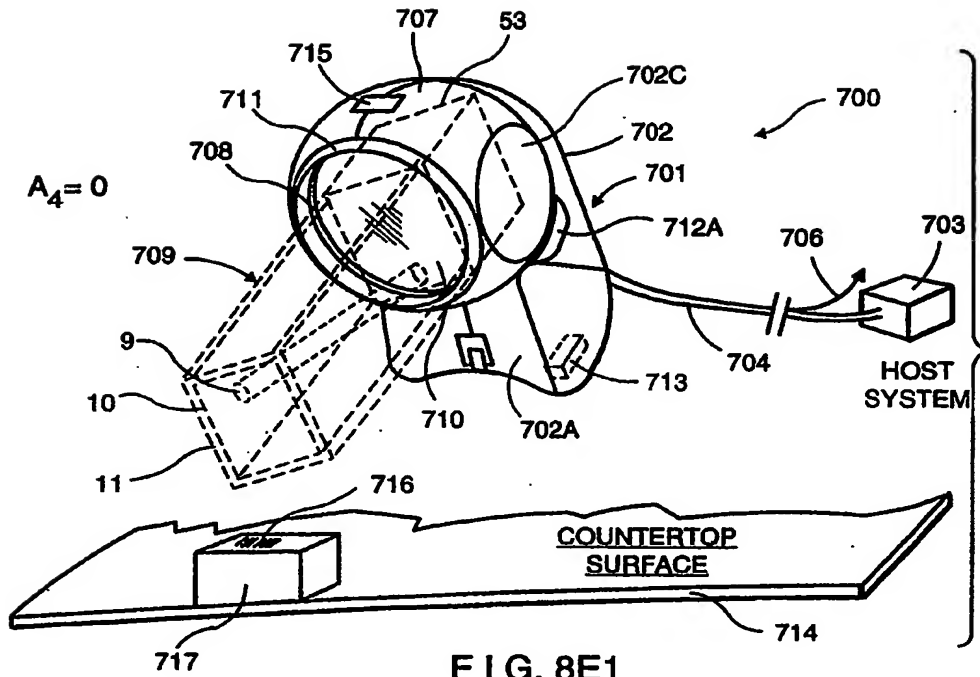


FIG. 8D



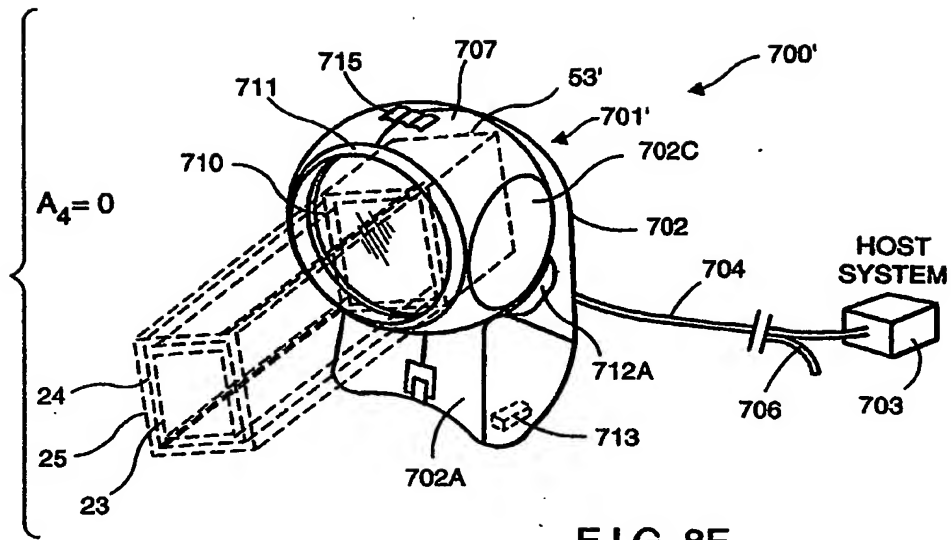


FIG. 8F

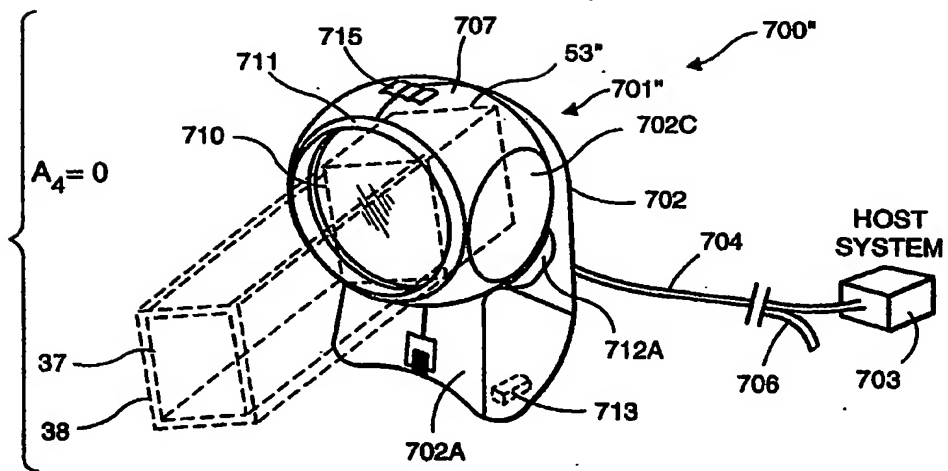


FIG. 8G

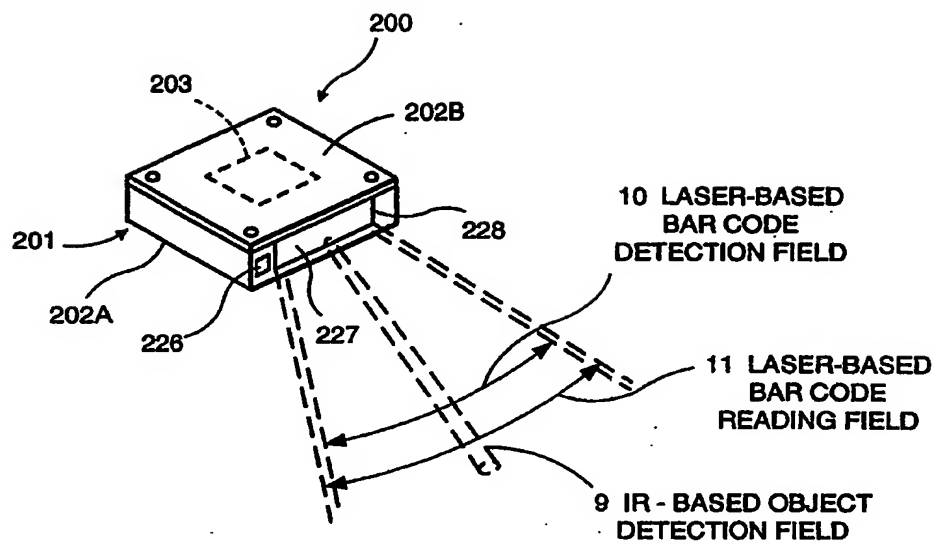


FIG. 9A

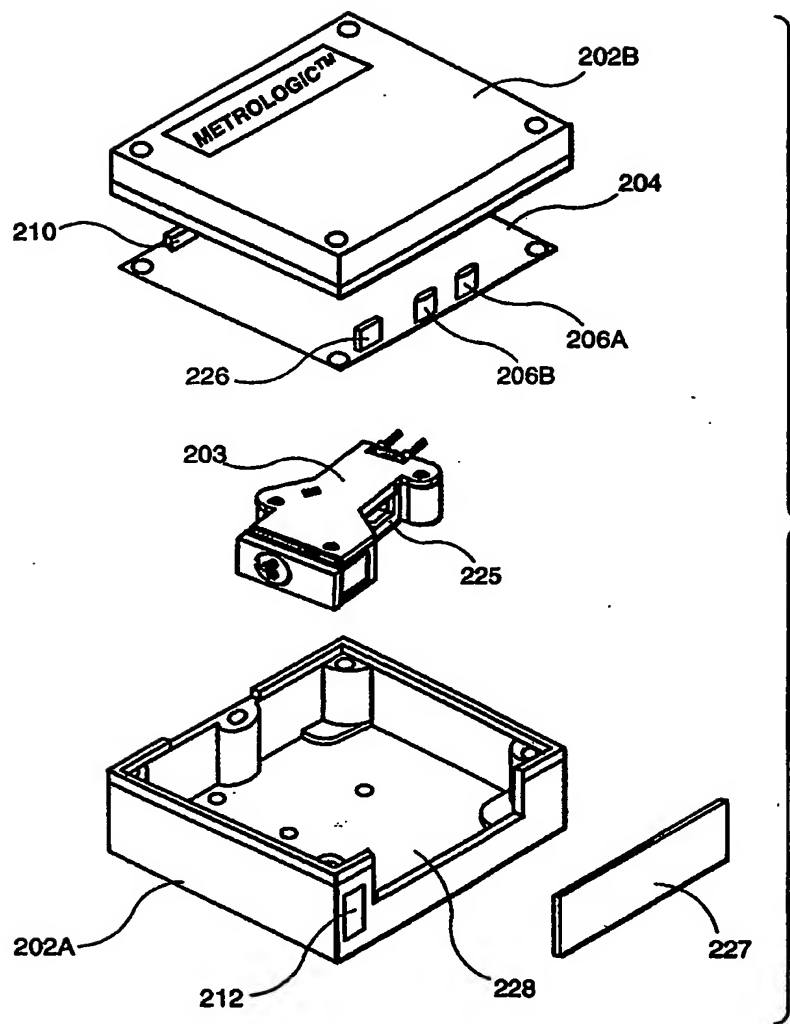


FIG. 9B

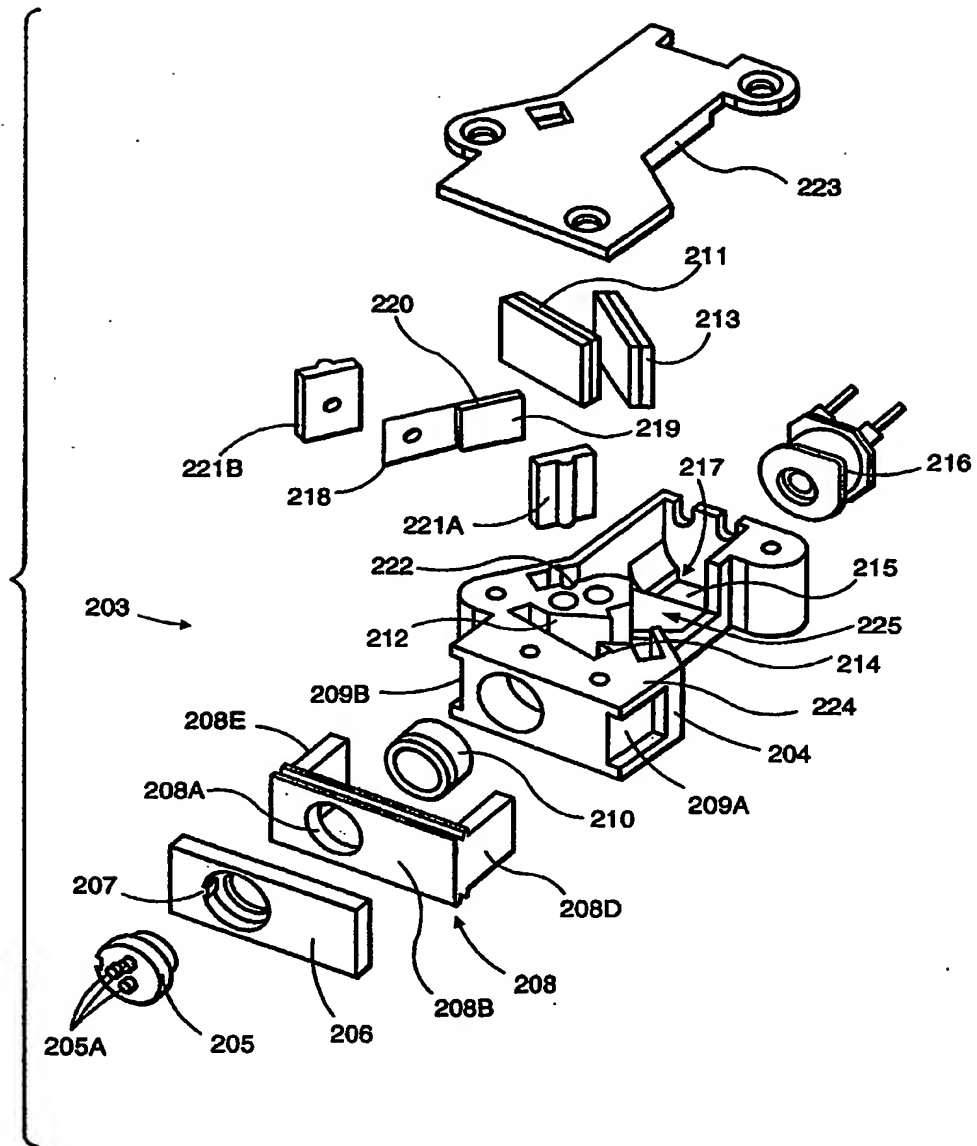


FIG. 9C

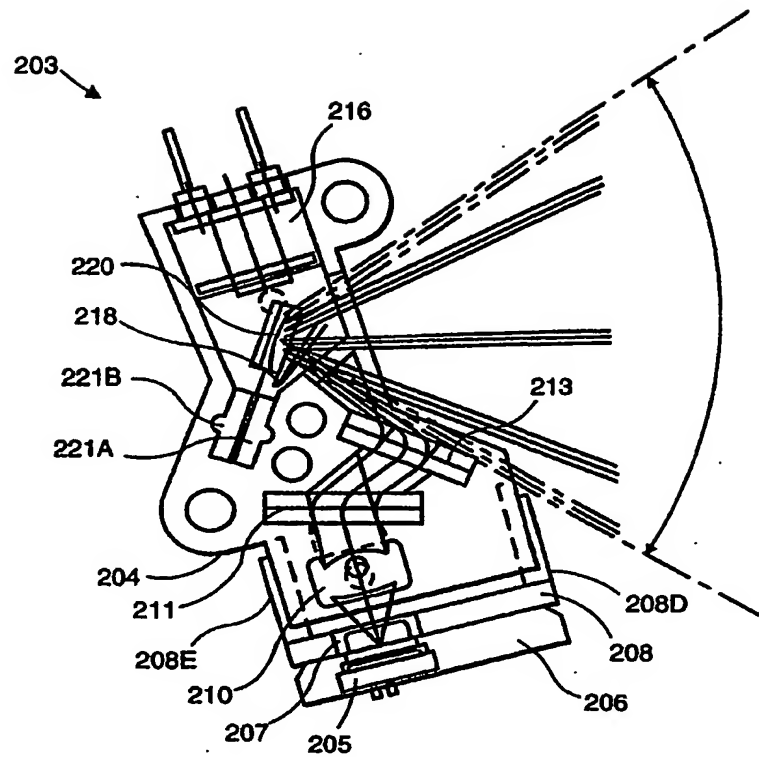


FIG. 9D

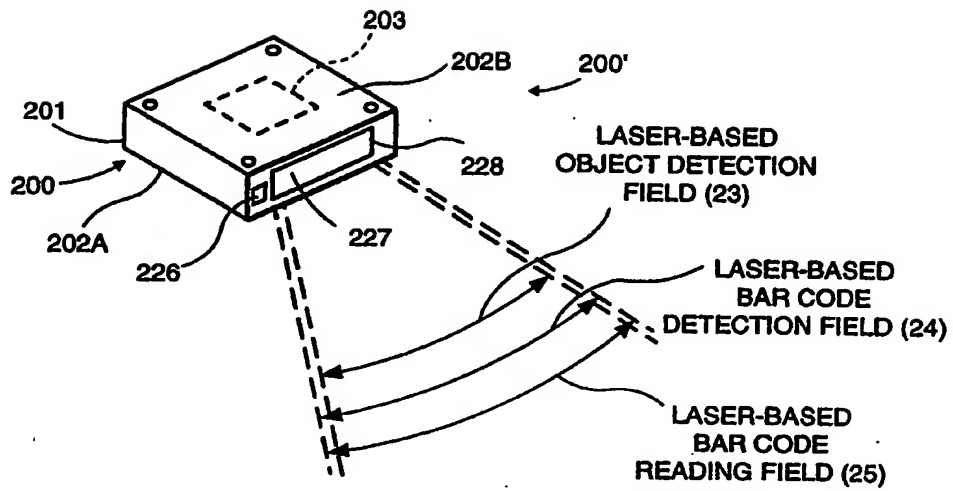


FIG. 9E

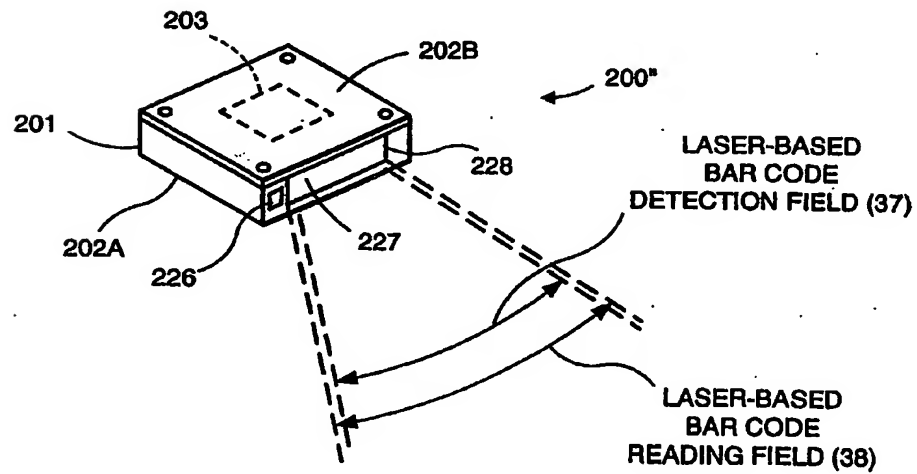


FIG. 9F

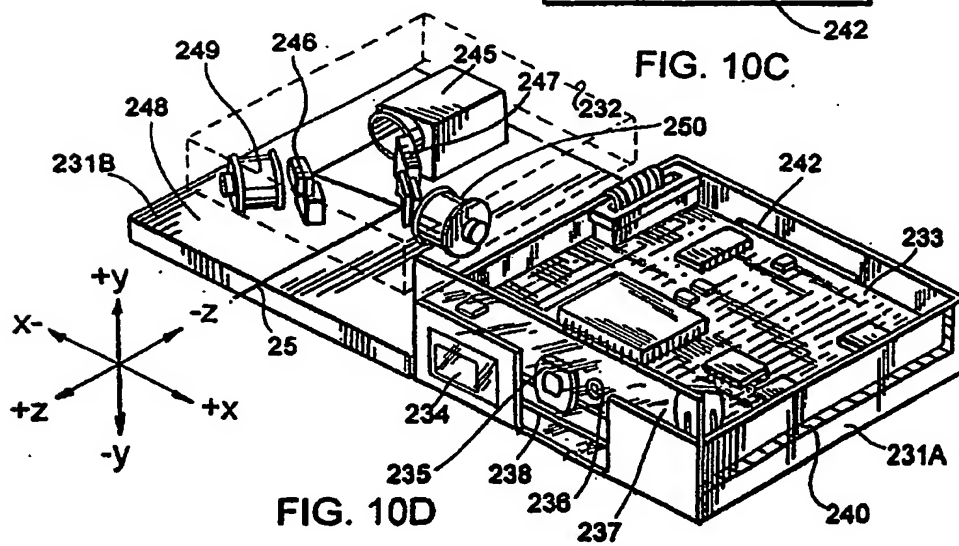
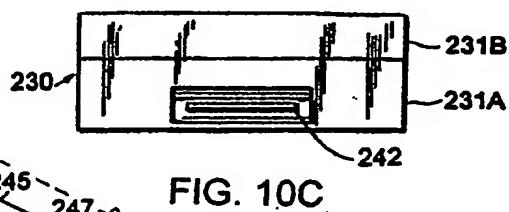
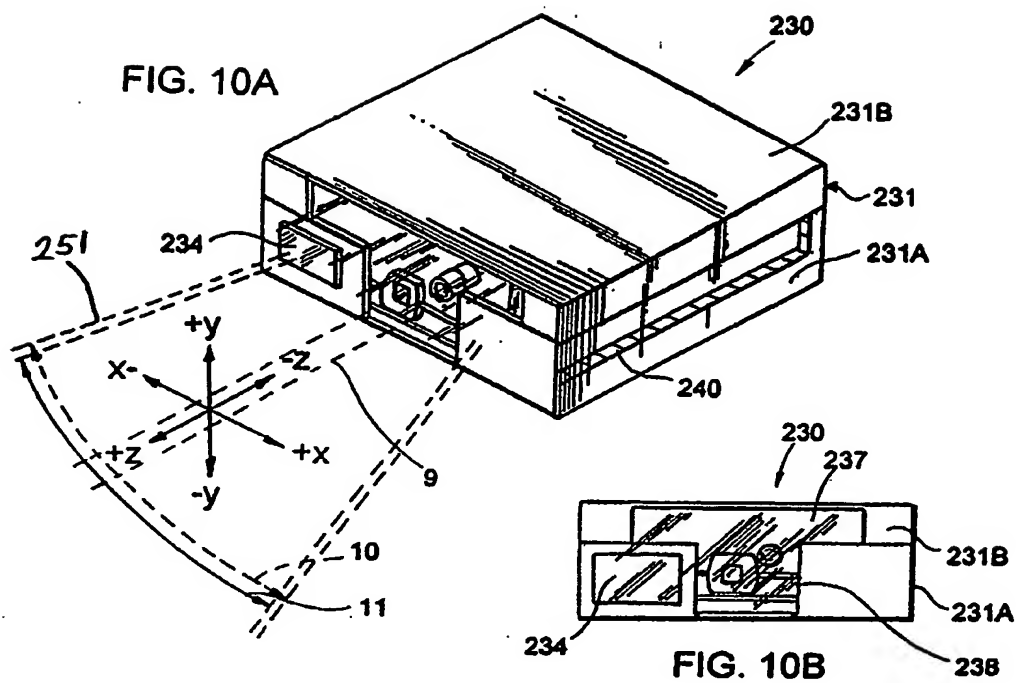


FIG. 10E

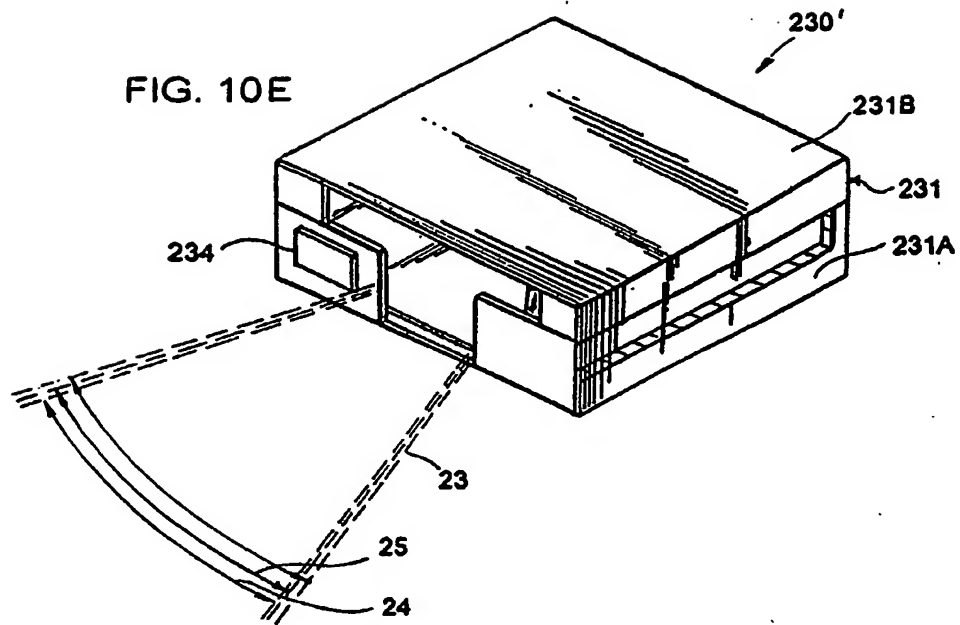
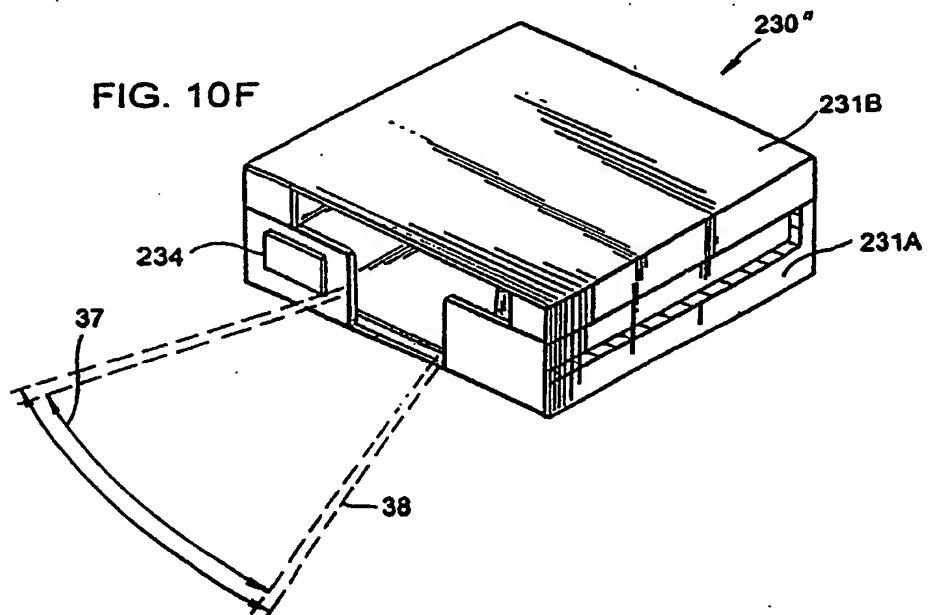


FIG. 10F



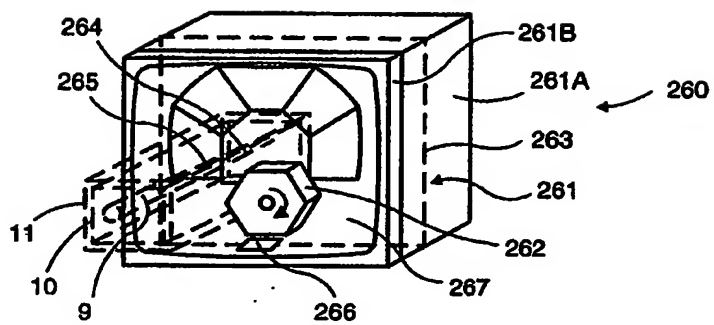


FIG. 11A

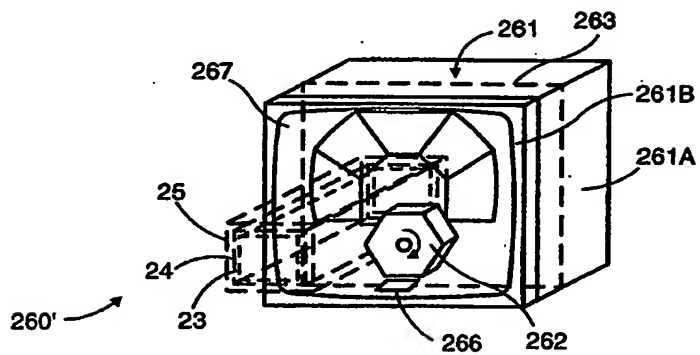


FIG. 11B

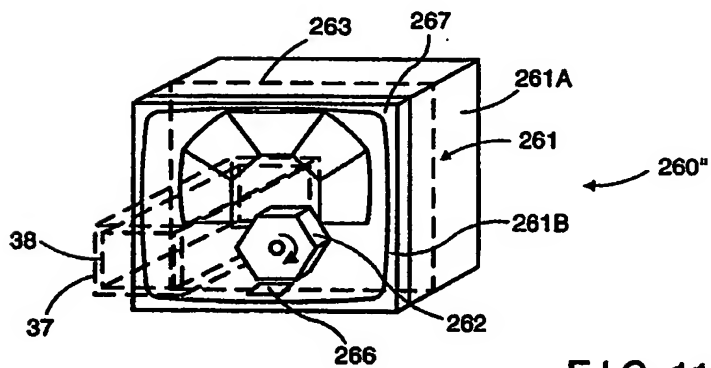


FIG. 11C

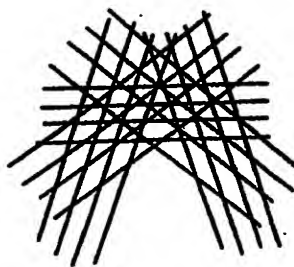


FIG. 12A

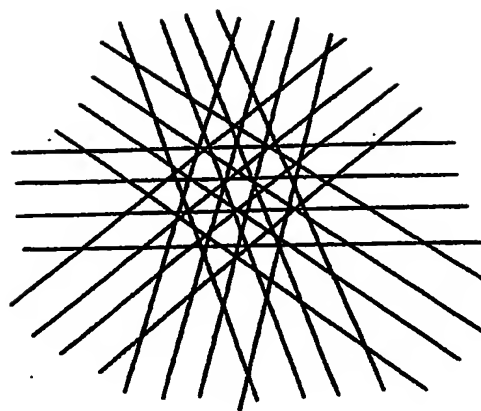
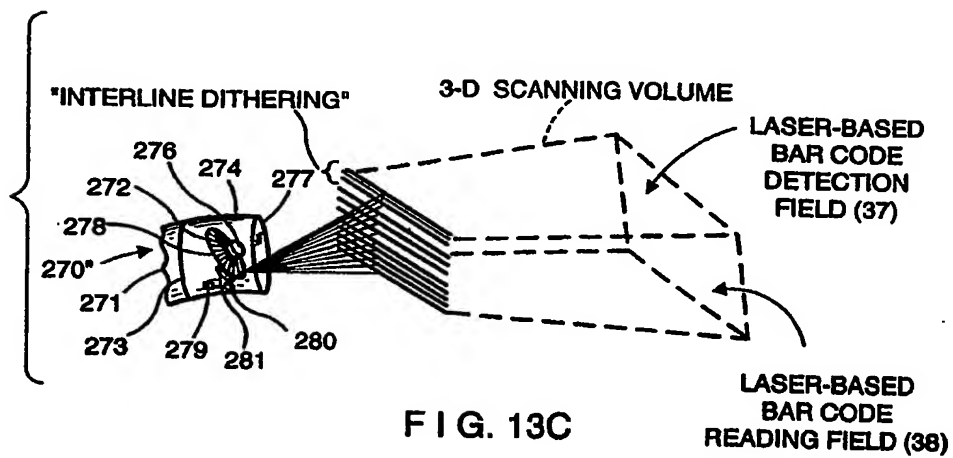
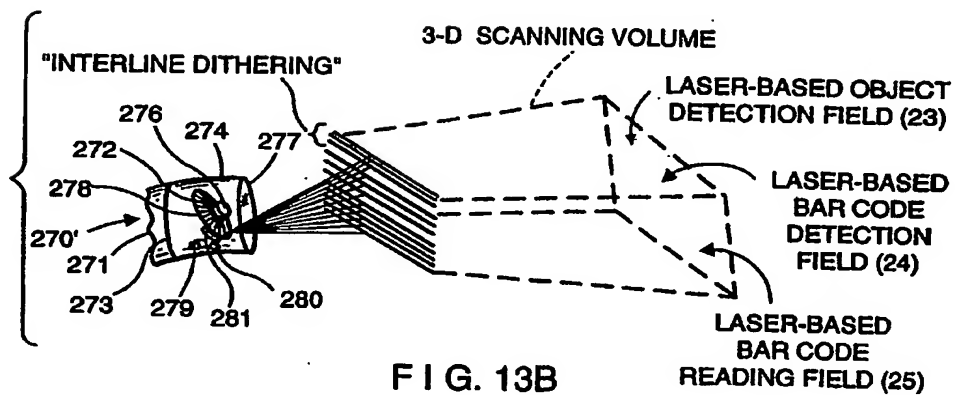
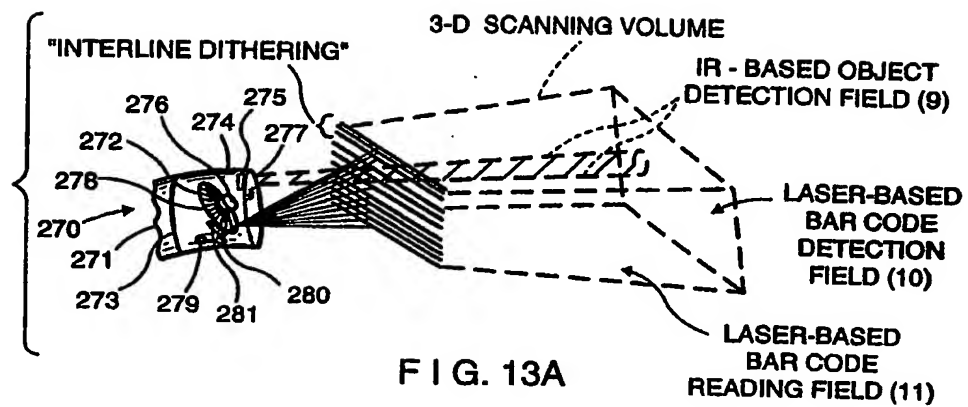
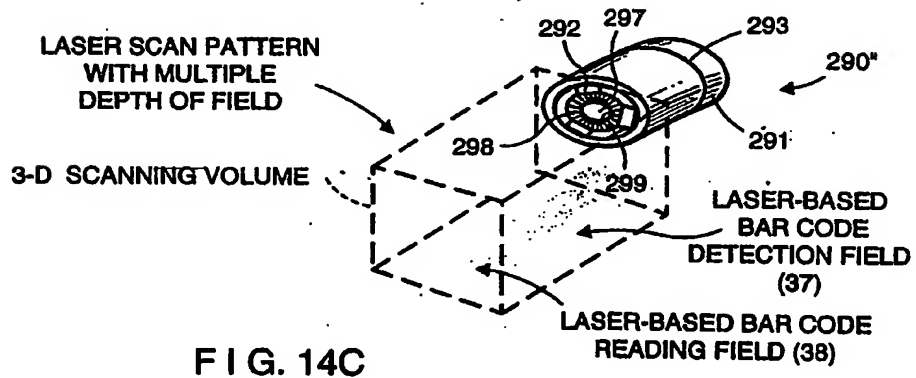
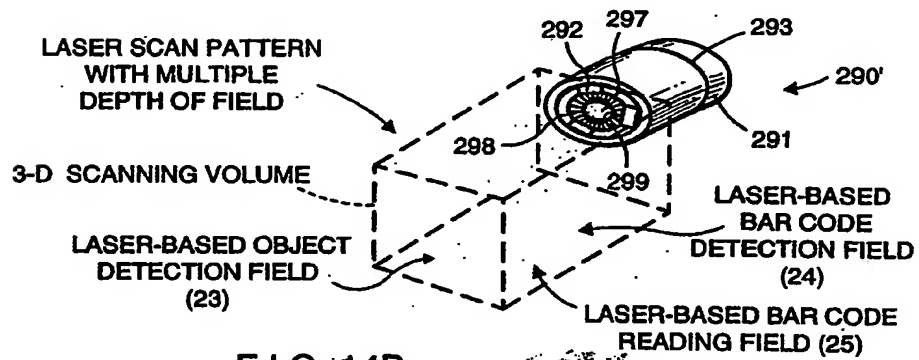
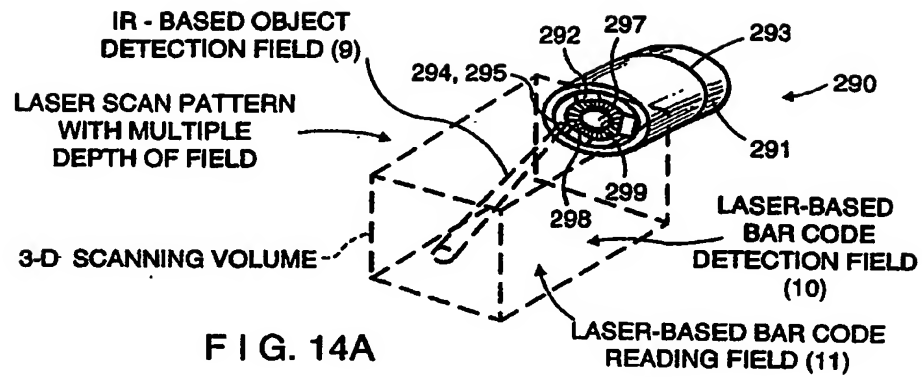


FIG. 12B





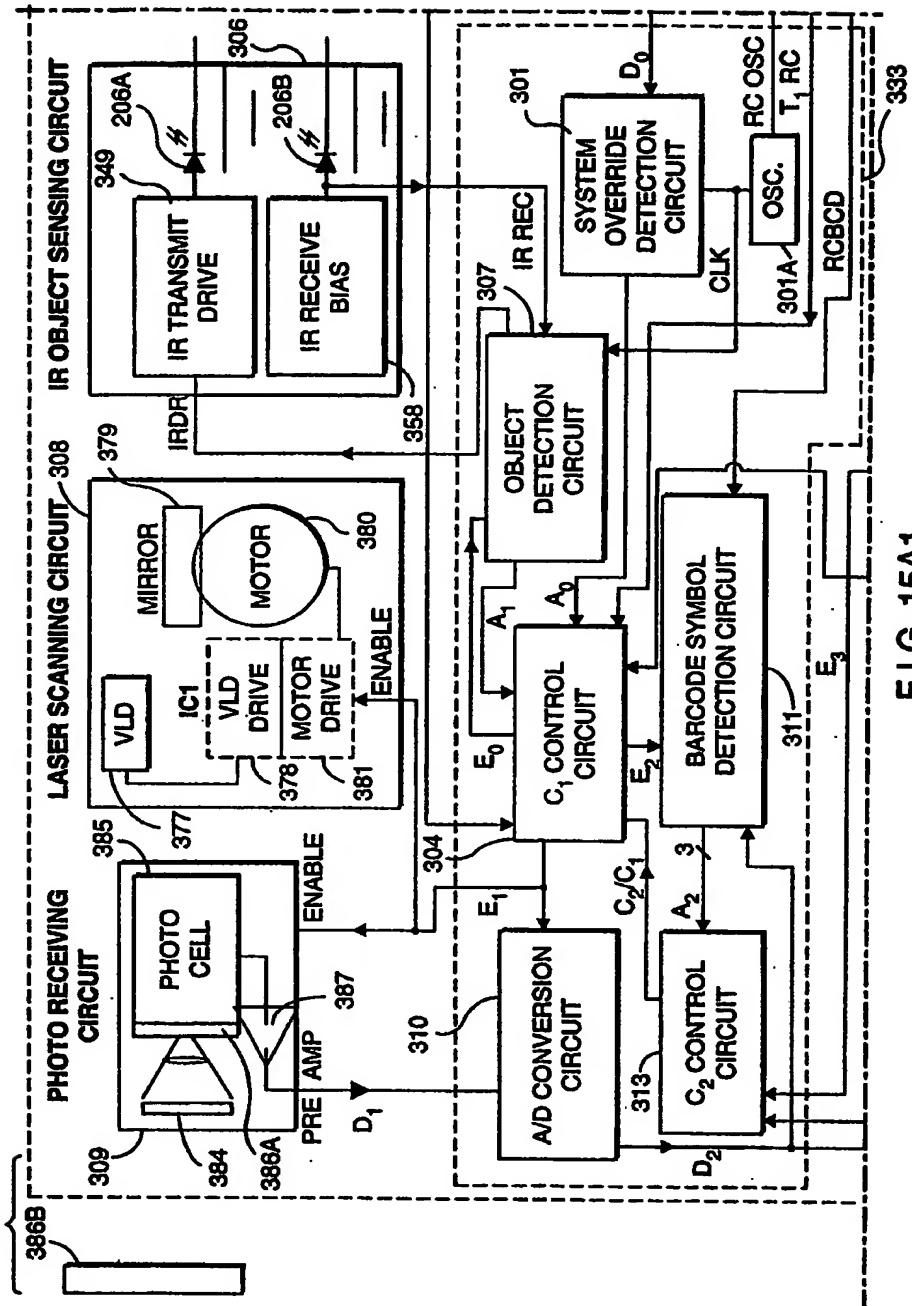


FIG. 15A1

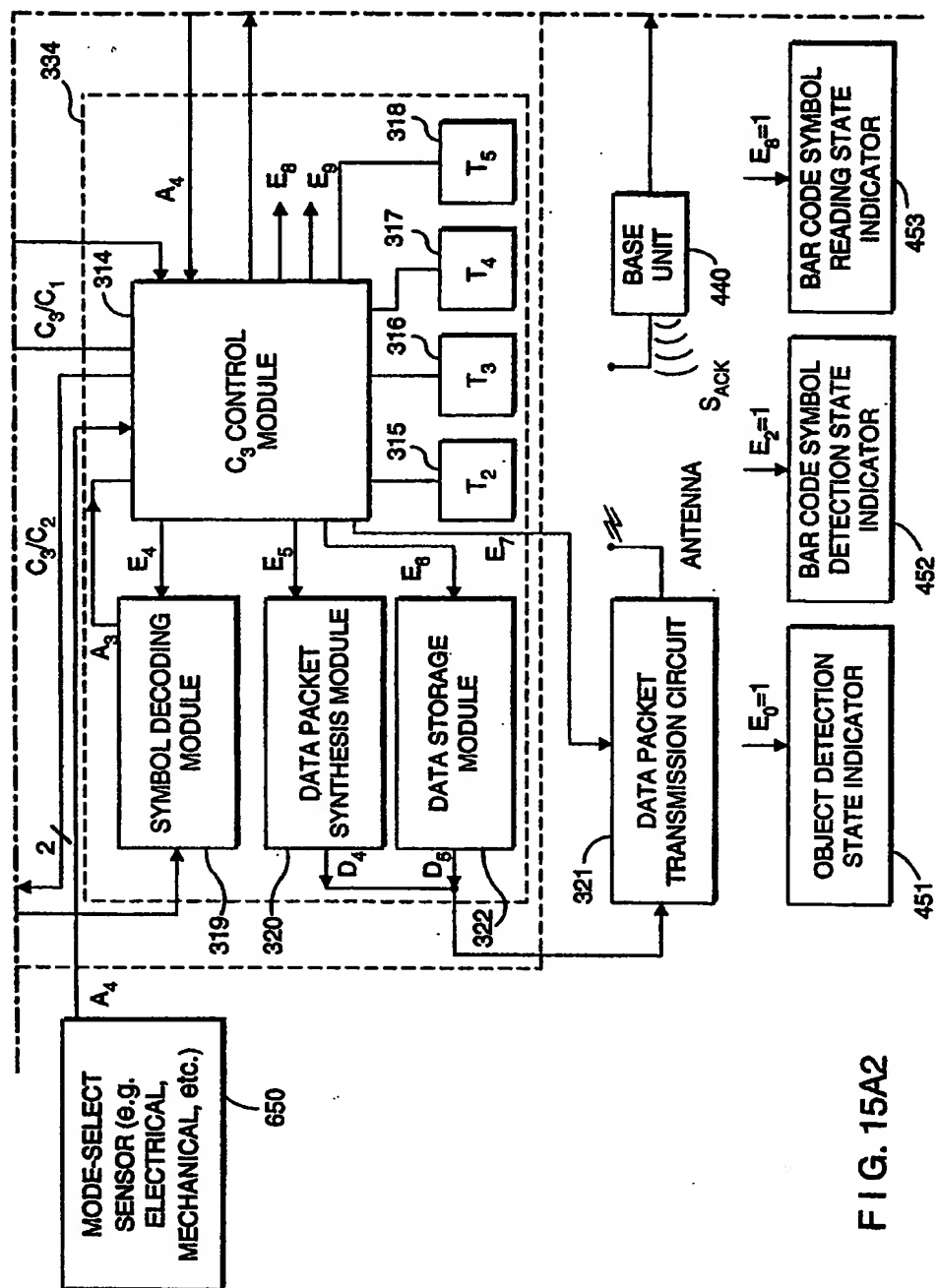


FIG. 15A2

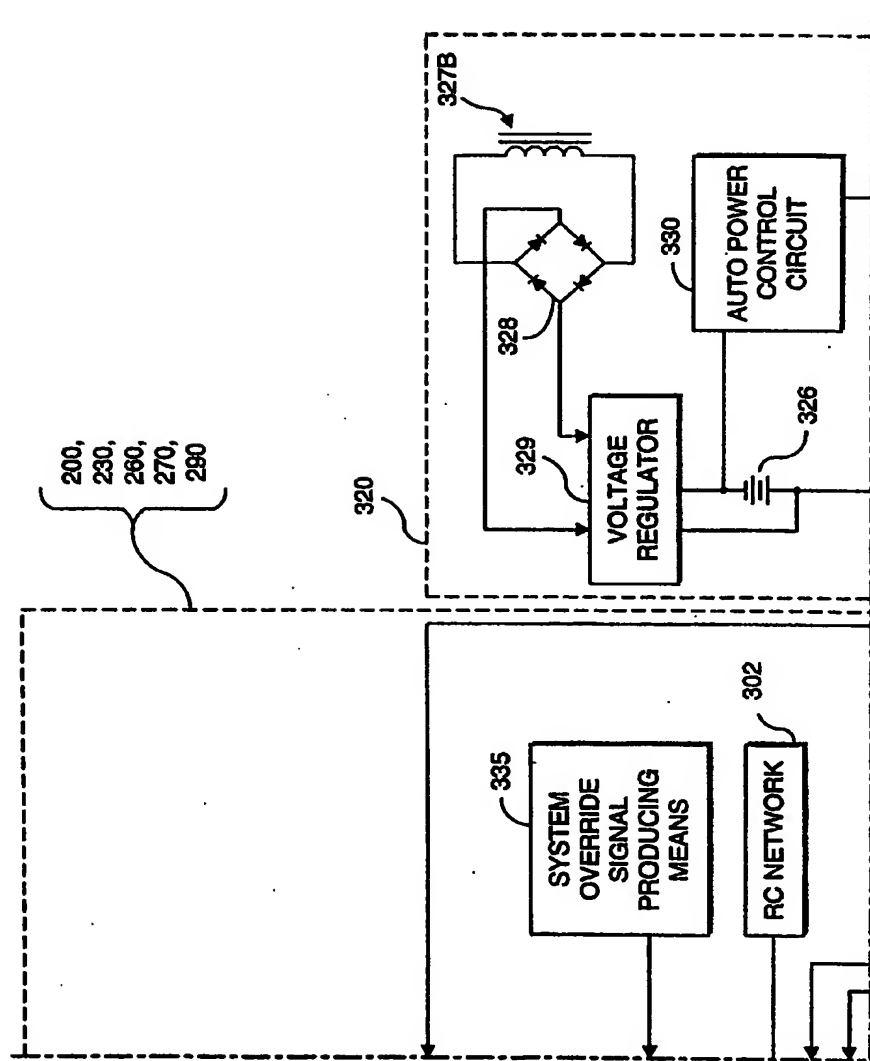


FIG. 15A3

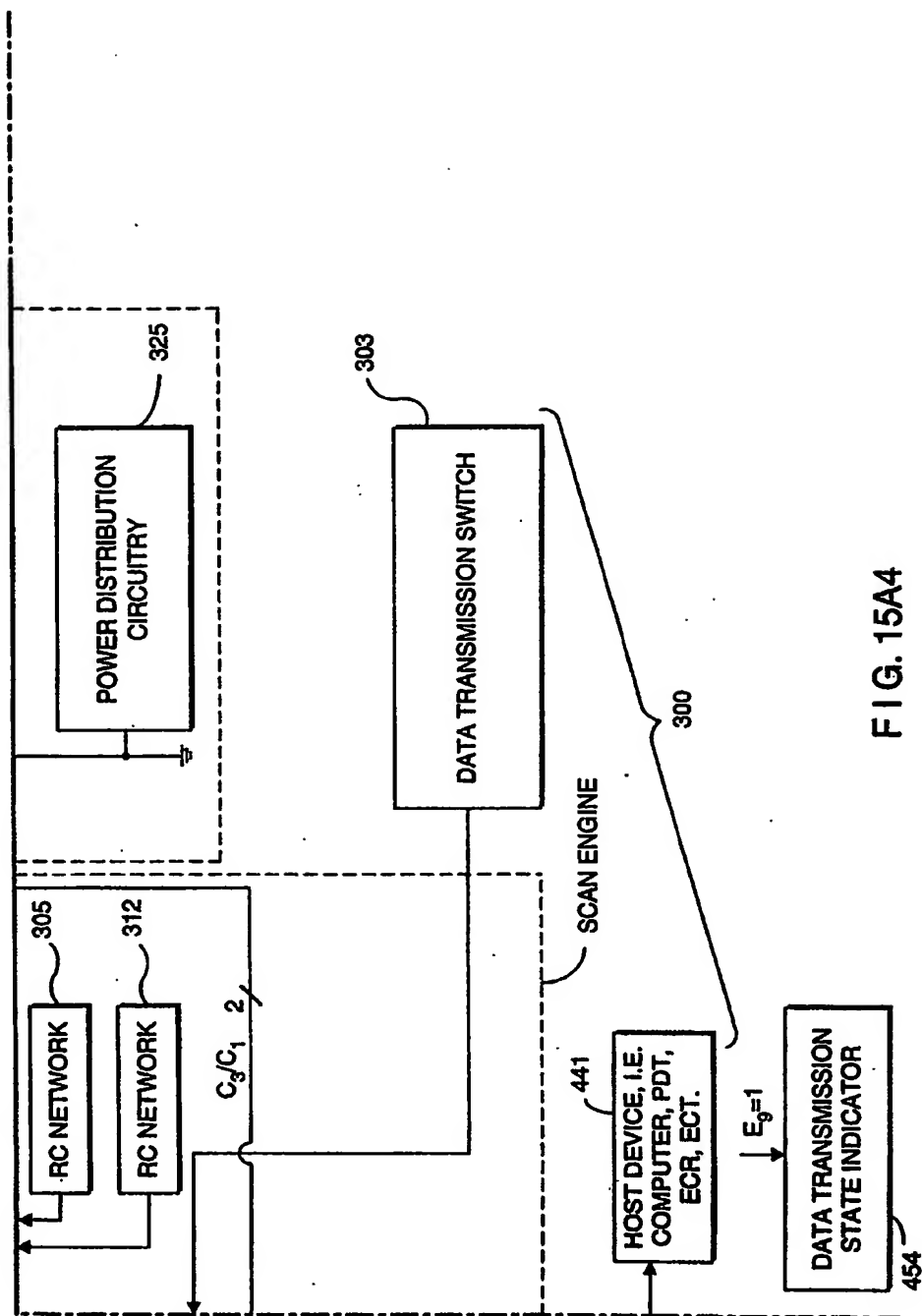


FIG. 15A4

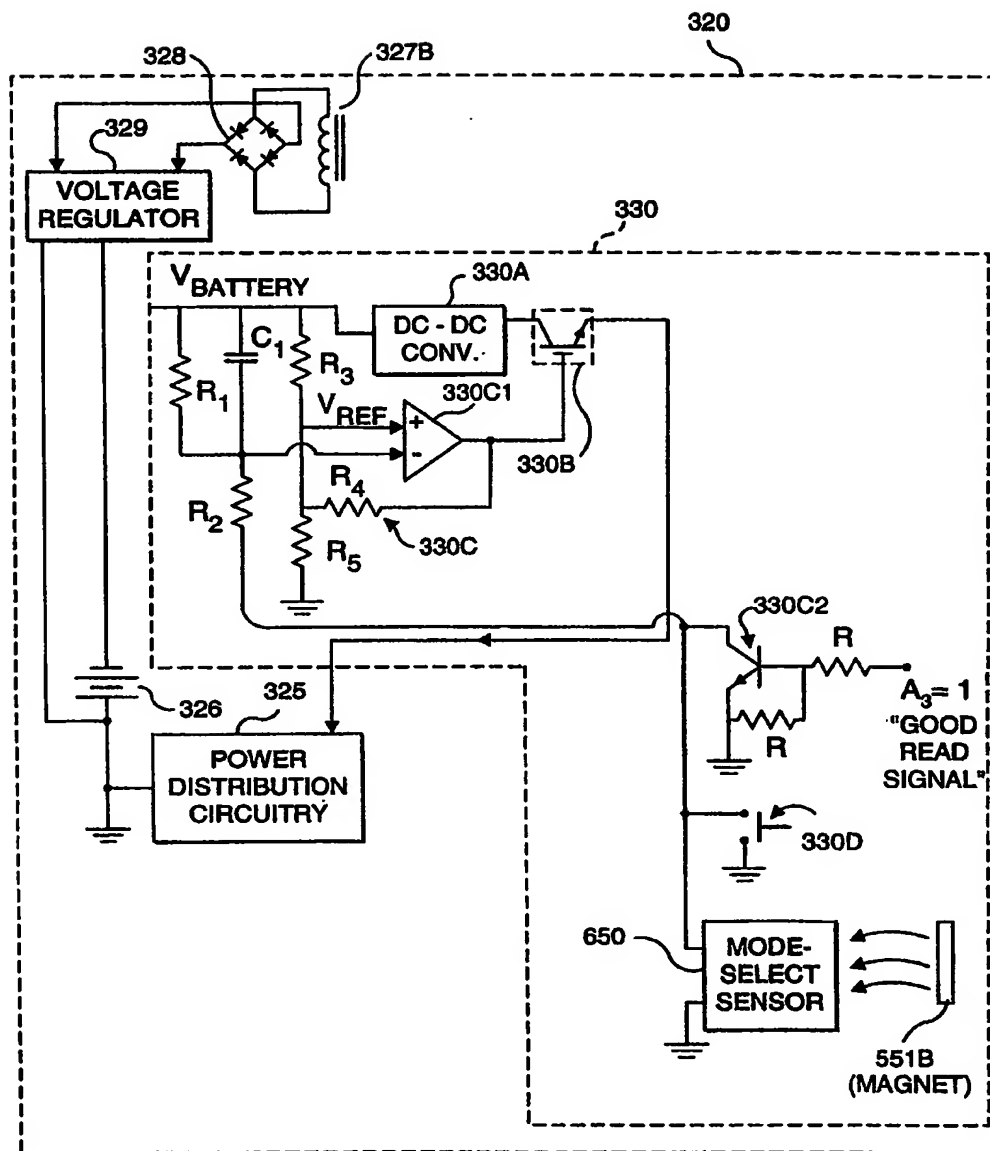


FIG. 15B1

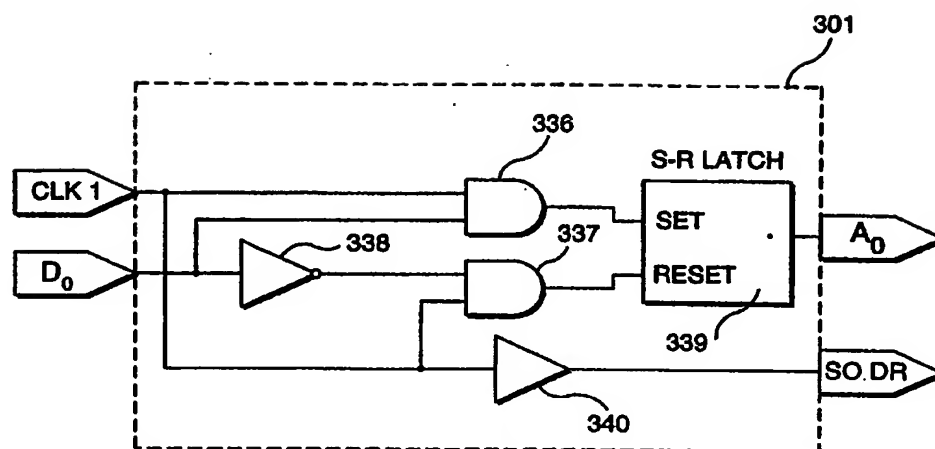


FIG. 15B2

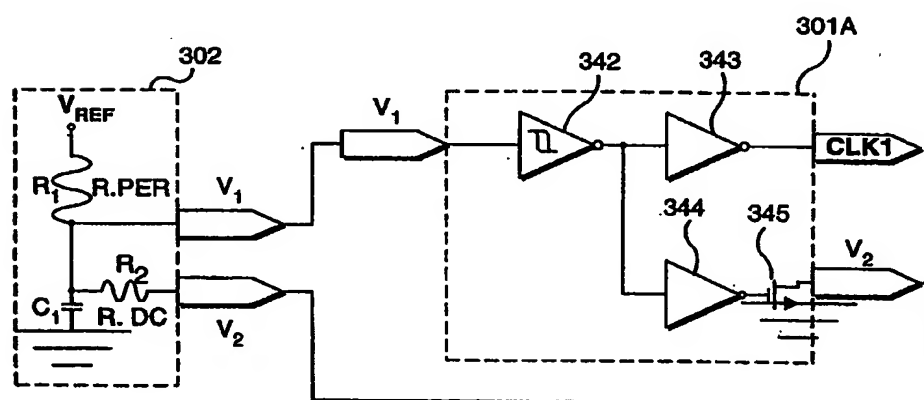


FIG. 15C

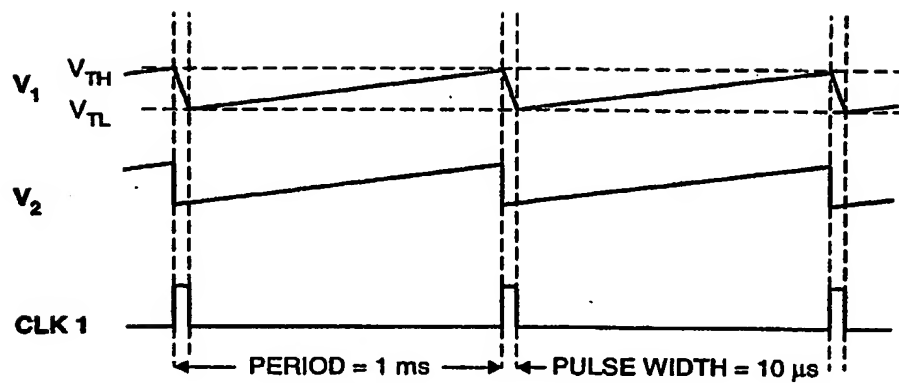


FIG. 15D

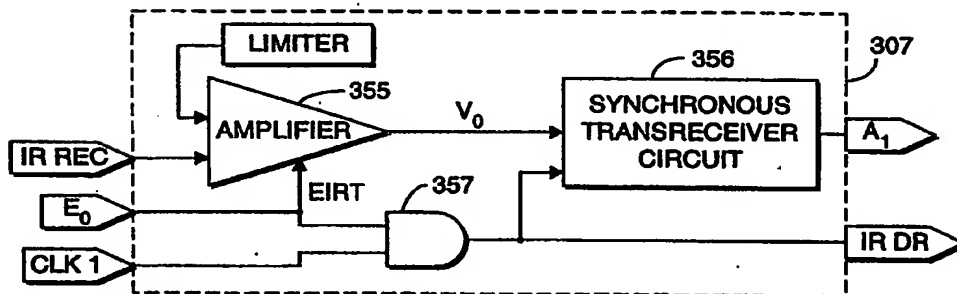


FIG. 15E

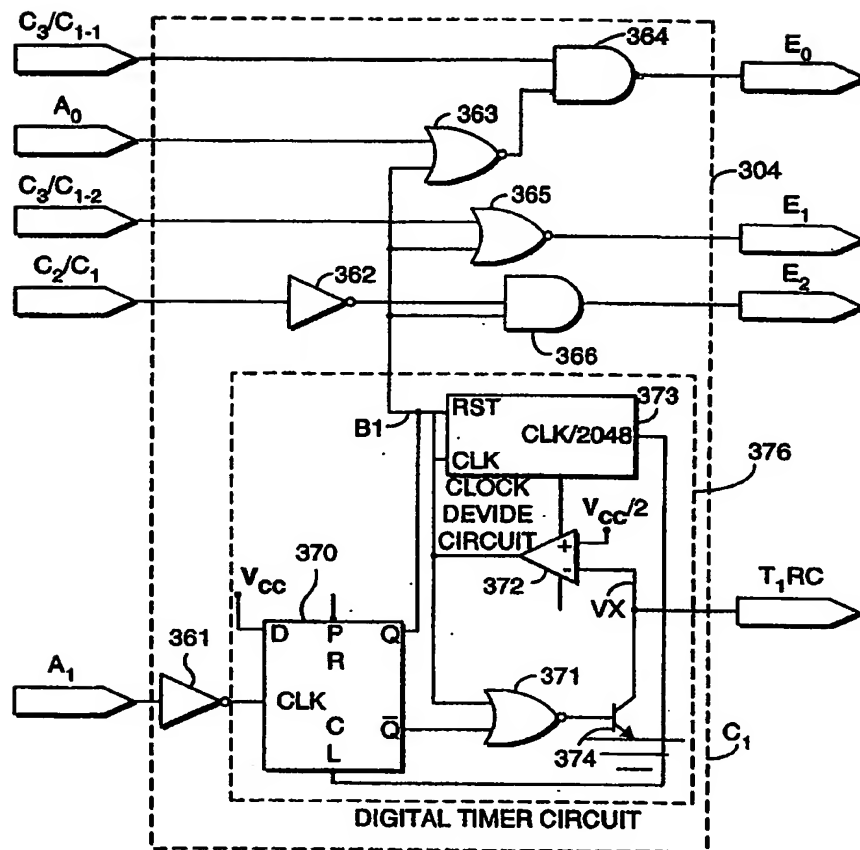


FIG. 15F

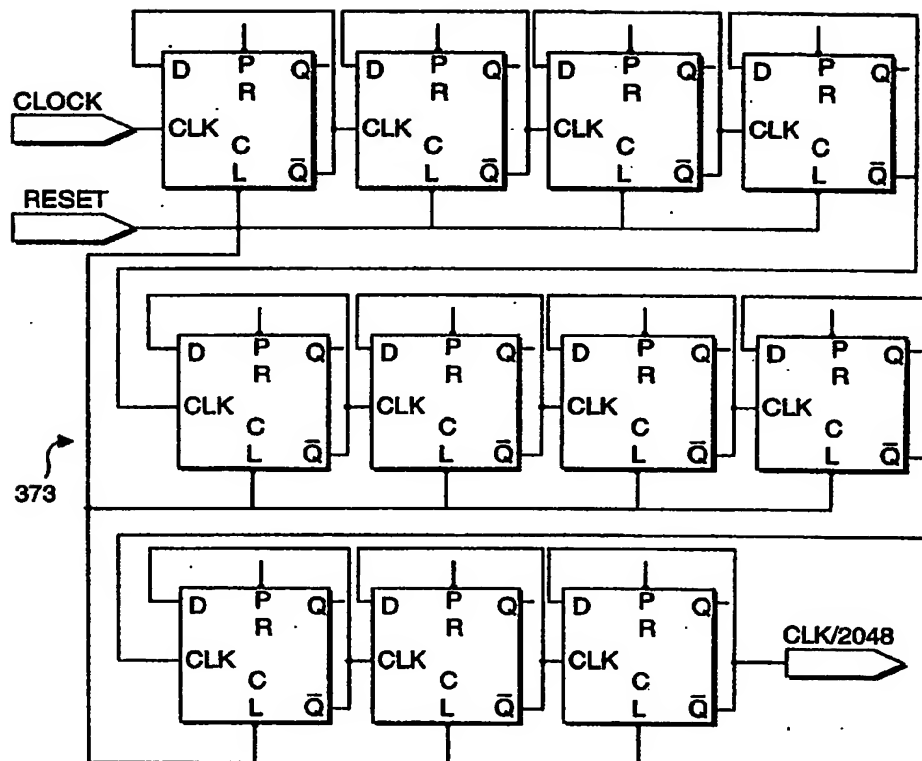


FIG. 15G

$$\left. \begin{aligned} E_0 &= (B_1 + A_0) (C_3 / C_{1-1}) \\ E_1 &= (C_3 / C_{1-2}) + B_1 \\ E_2 &= (C_2 / C_1) (T_1) \end{aligned} \right\}$$

FIG. 15H

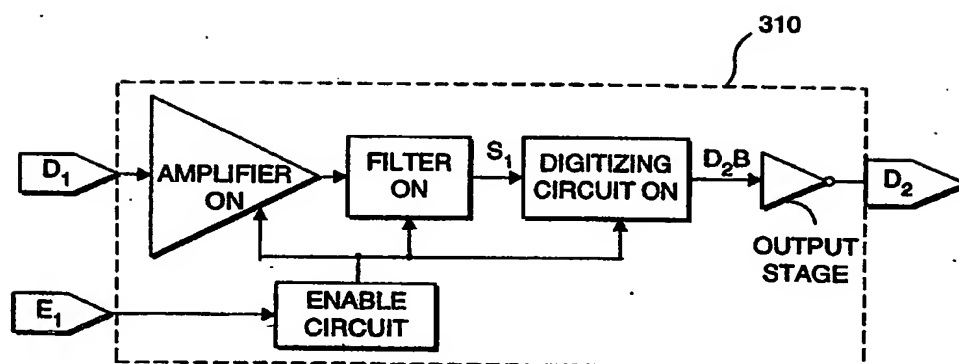


FIG. 15I

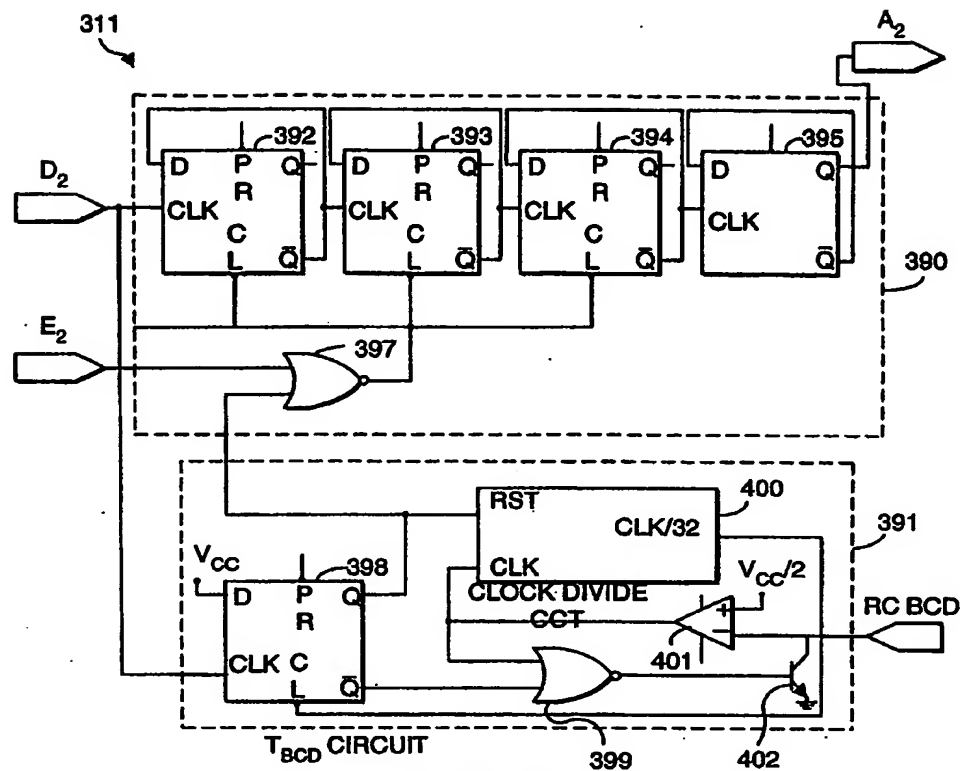


FIG. 15J

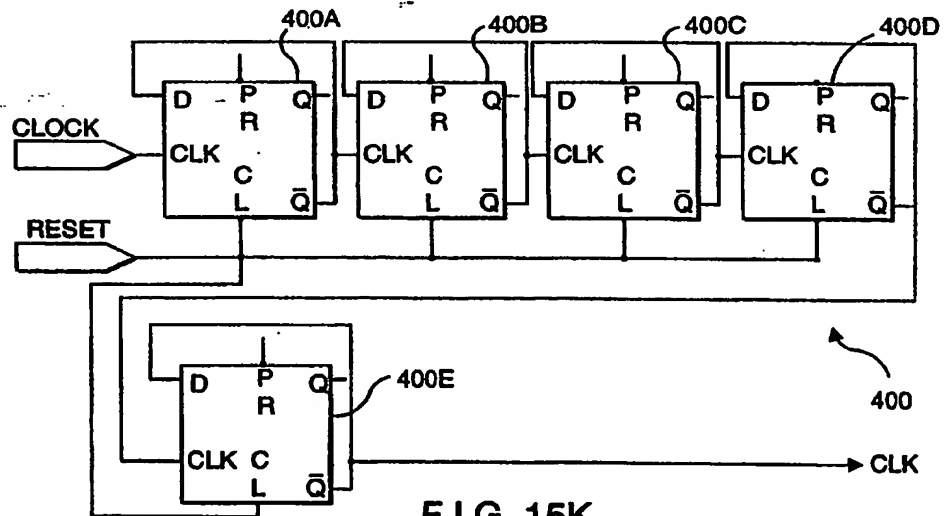


FIG. 15K

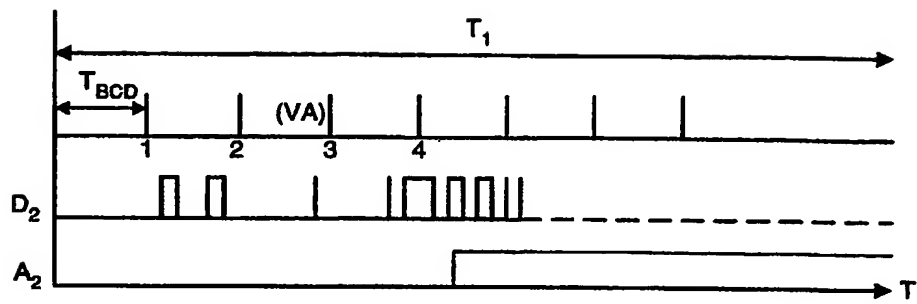


FIG. 15L

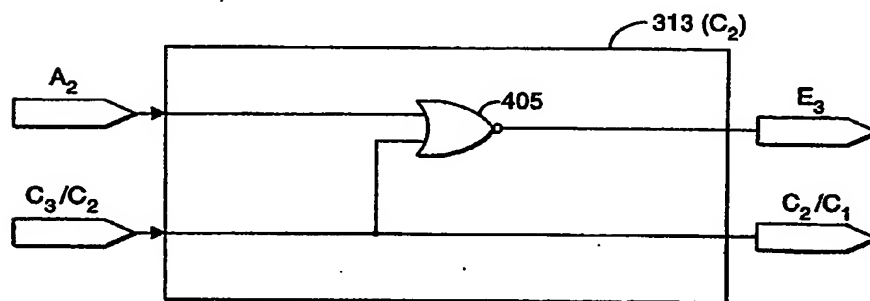


FIG. 15M

C_3/C_2	A_2	E_3	C_2/C_1
0	0	0	0
0	1	1	0
1	X	1	1

X: DON'T CARE (I.E. C_3/C_2 OVERRIDES A_2)

FIG. 15N

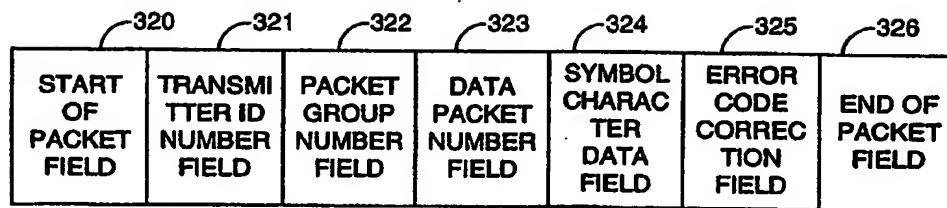


FIG. 150

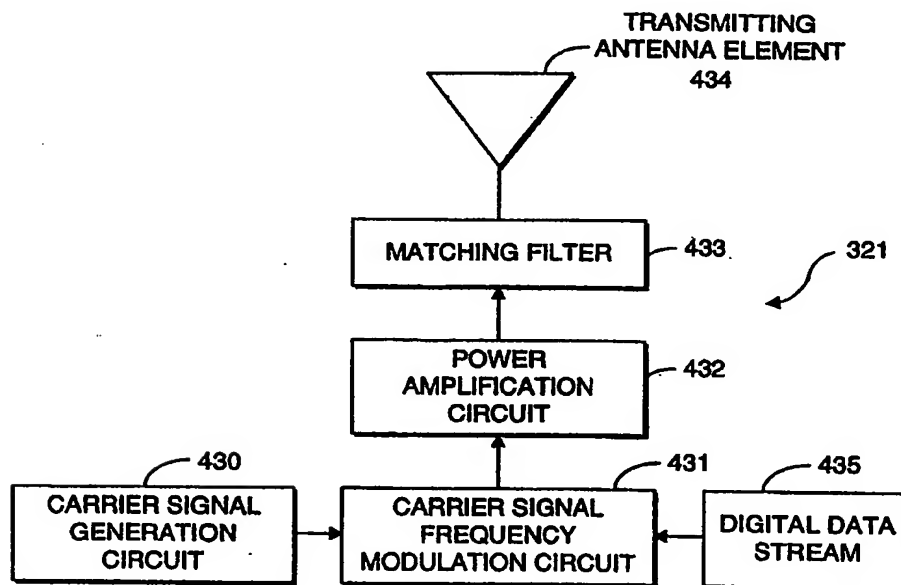


FIG. 16

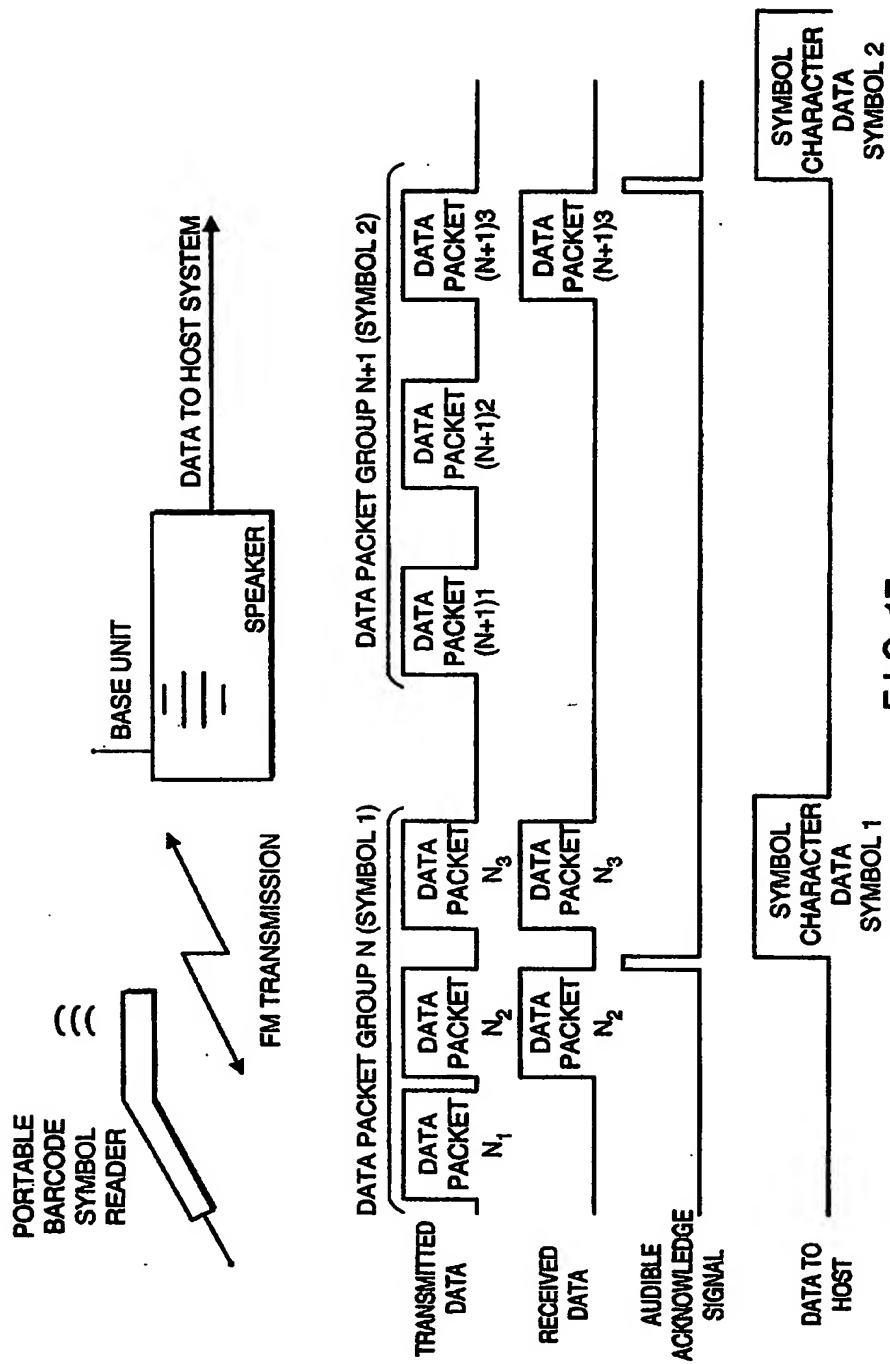
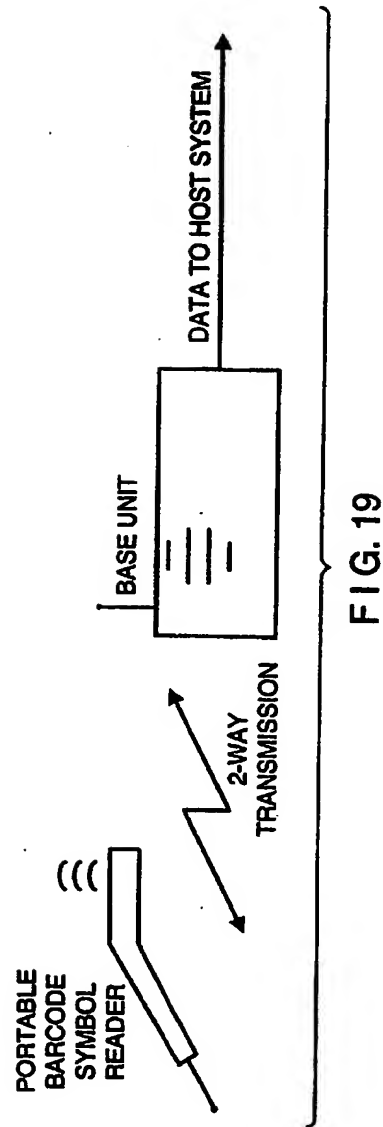
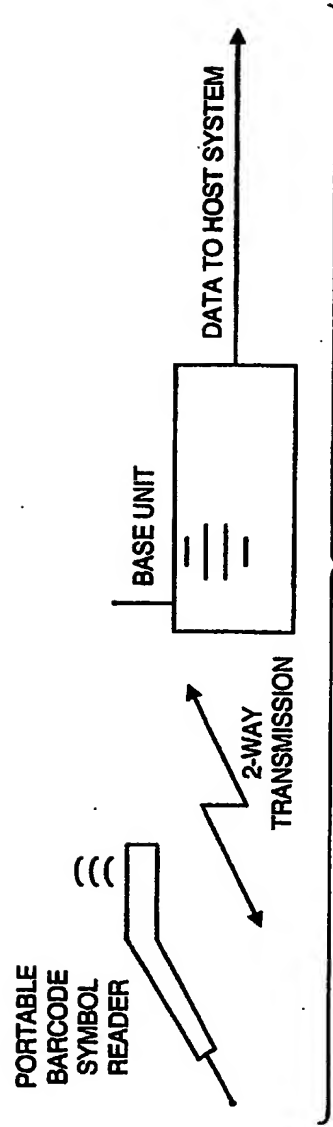


FIG. 17



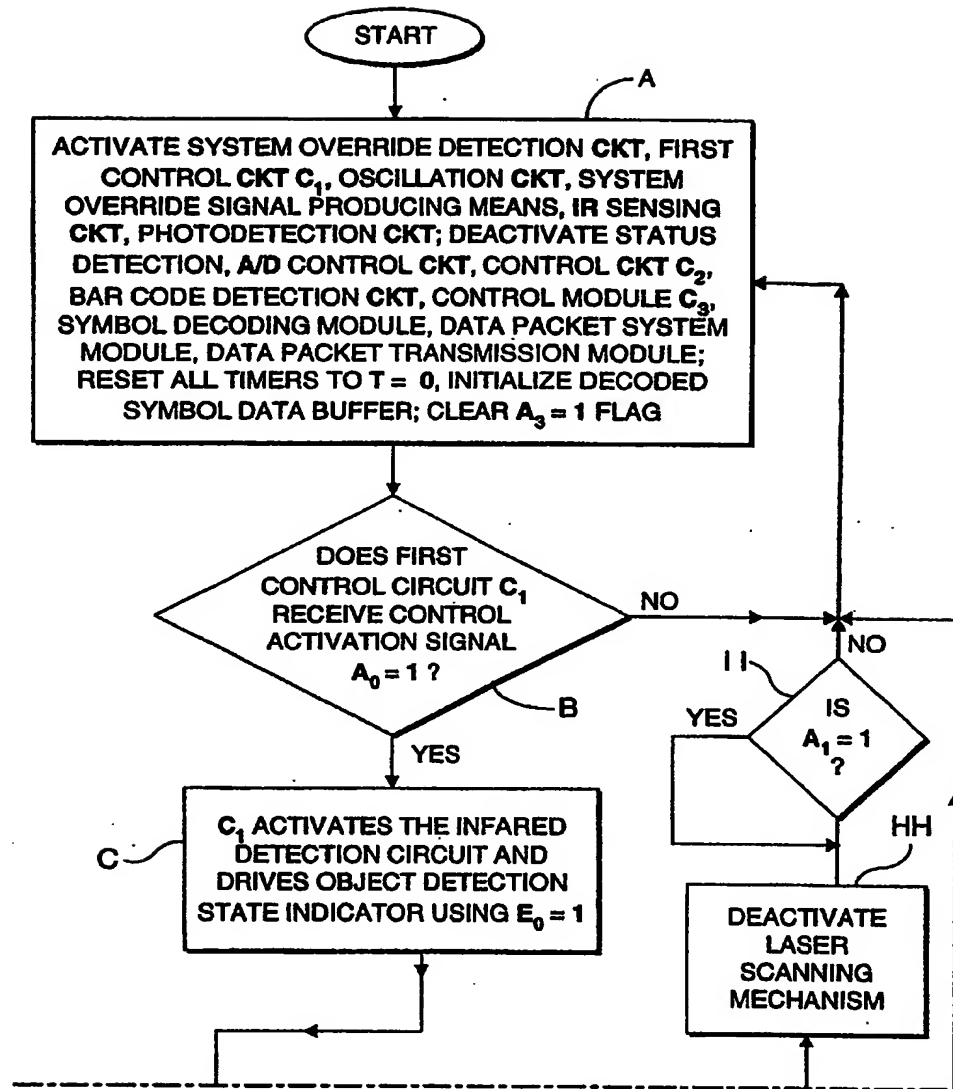
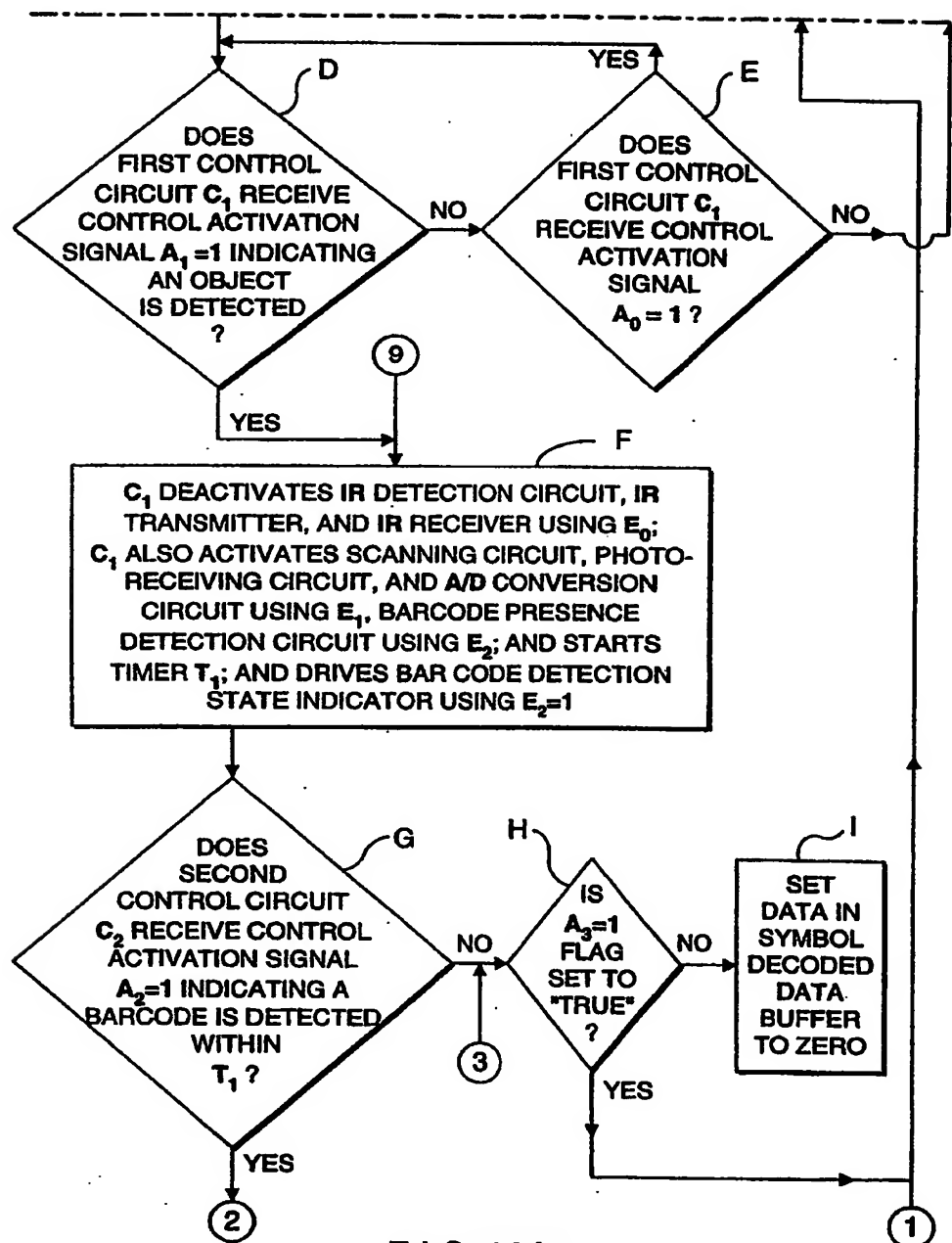


FIG. 20A1



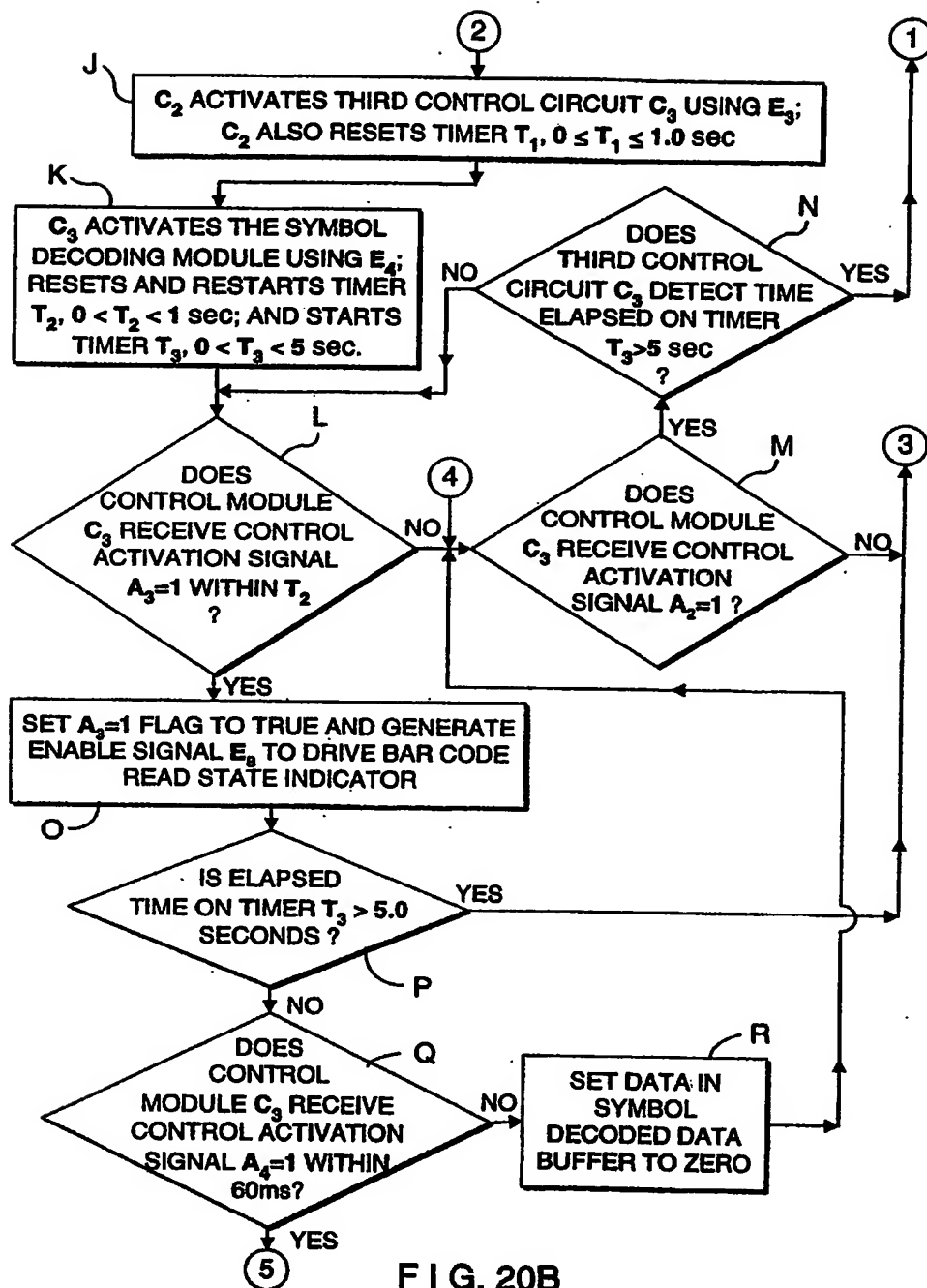


FIG. 20B

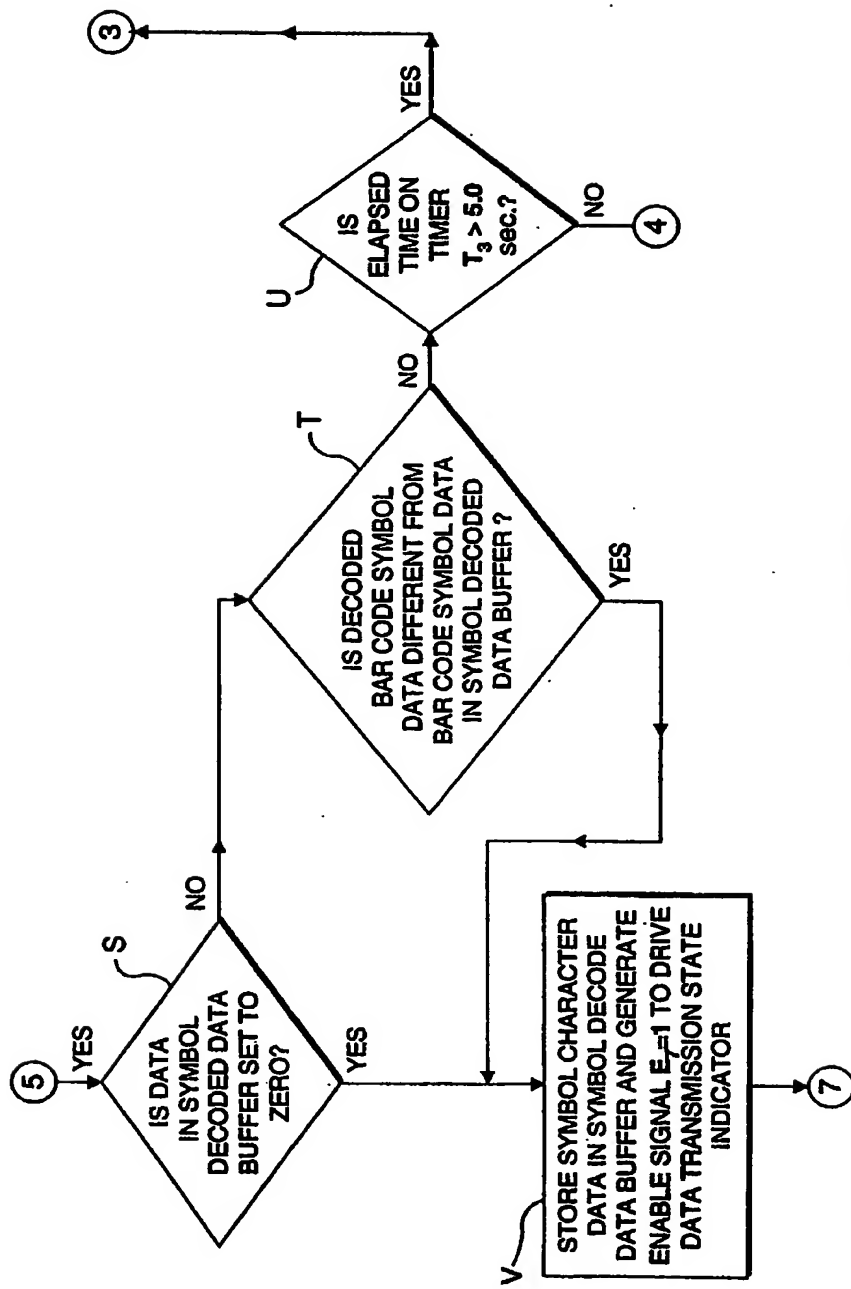


FIG. 20C

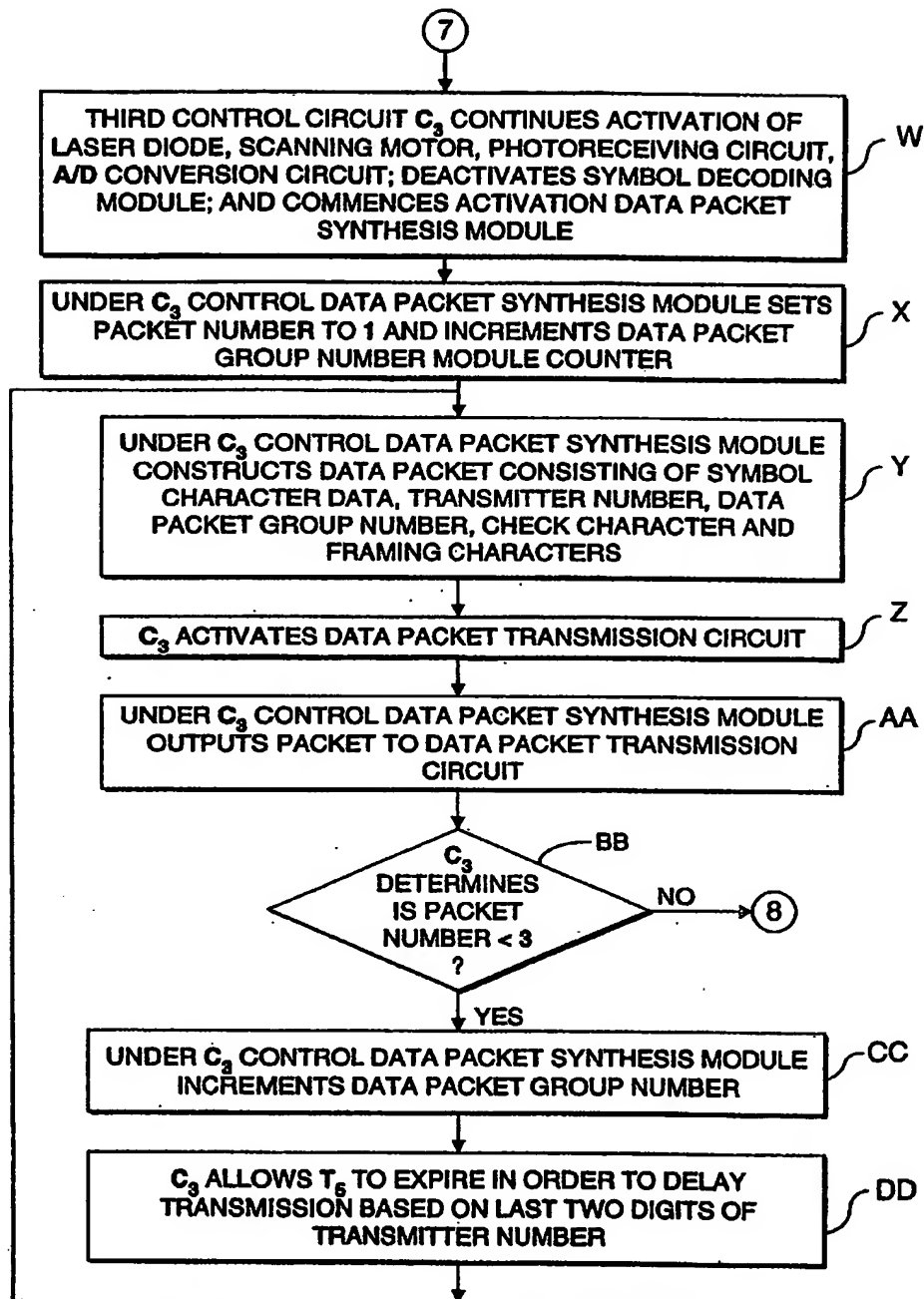


FIG. 20D

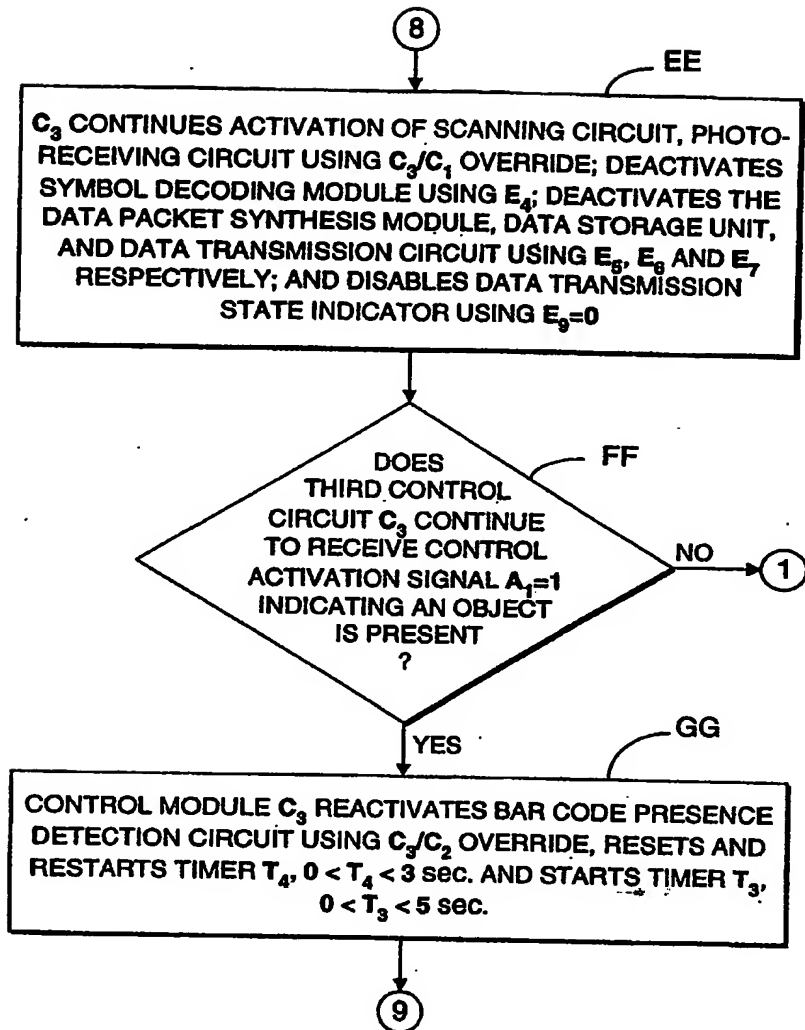


FIG. 20E

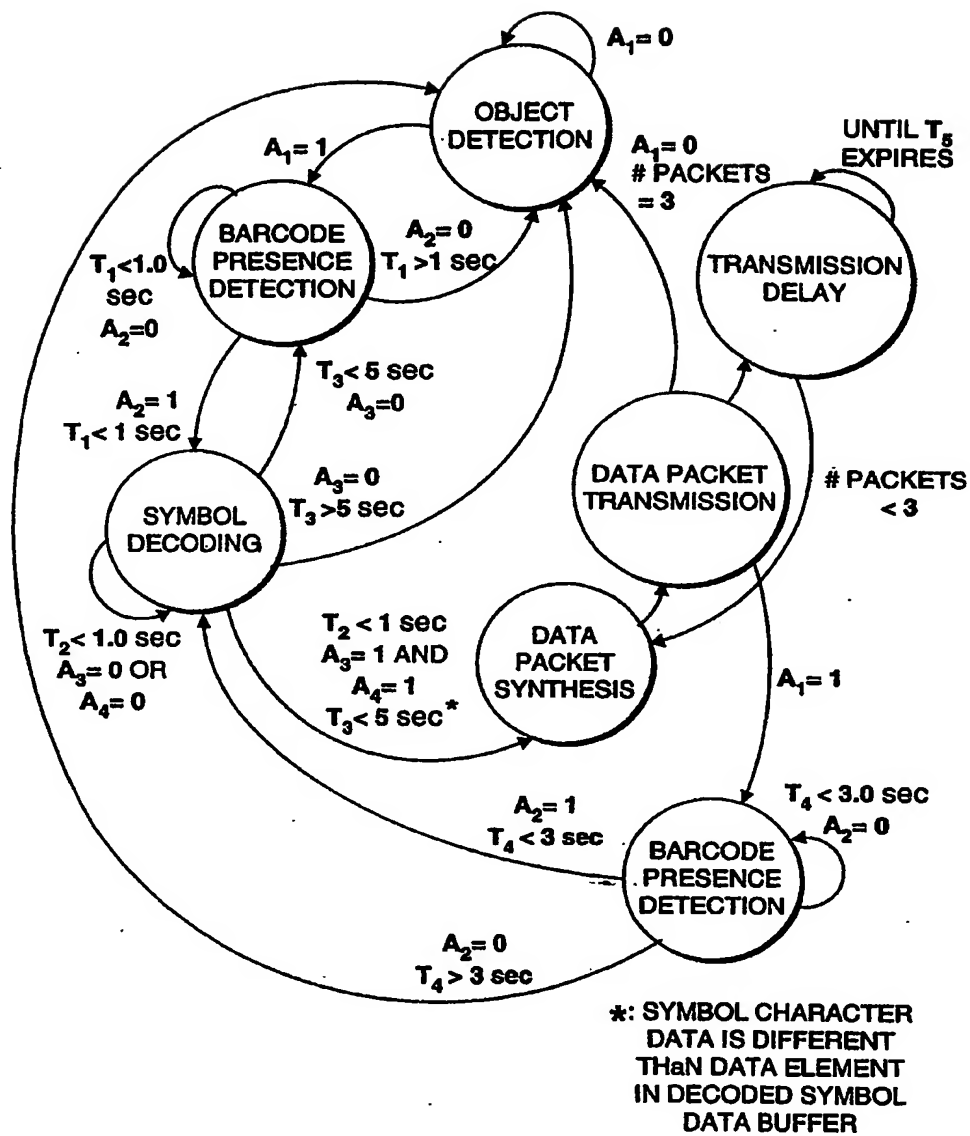


FIG. 21

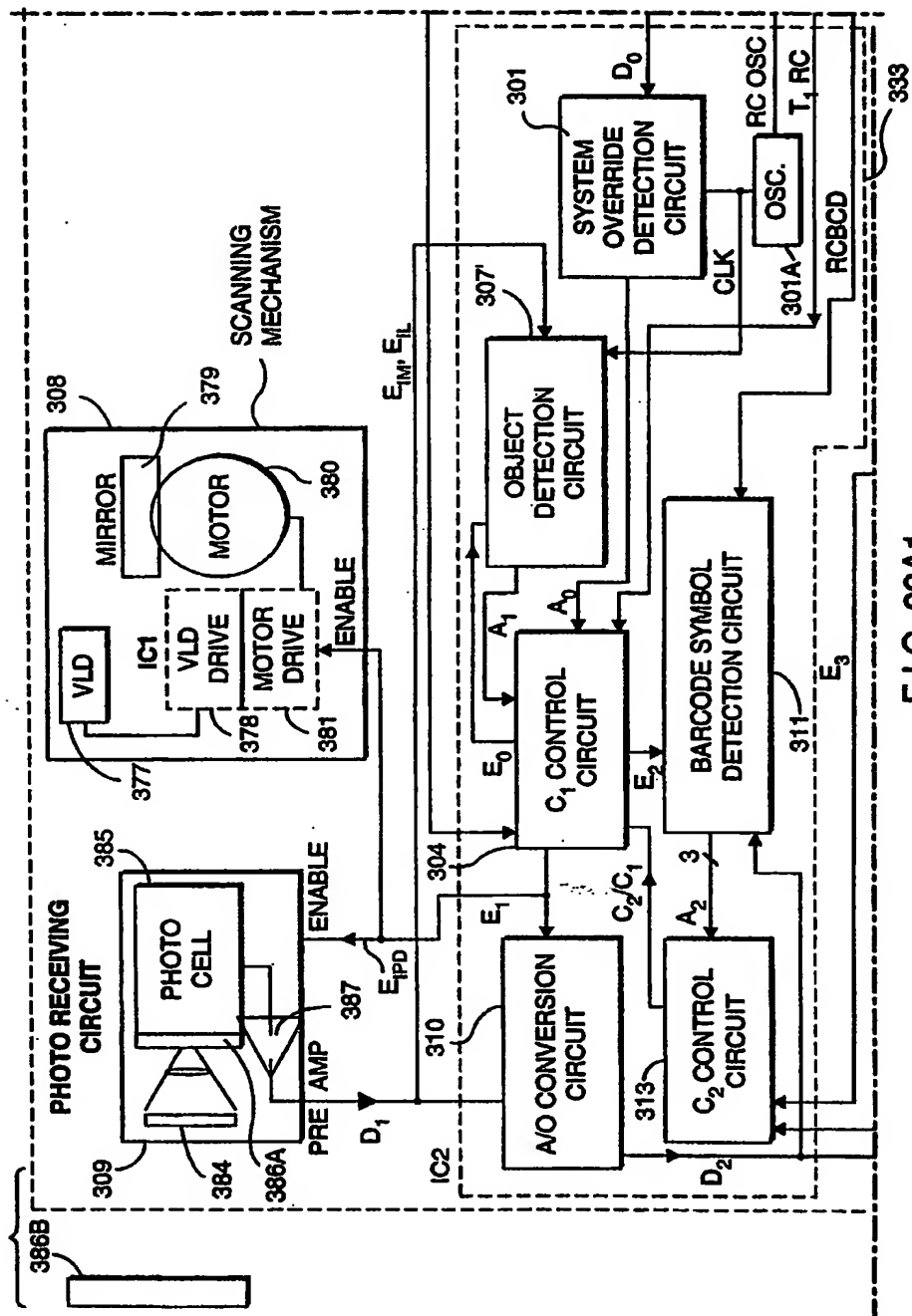
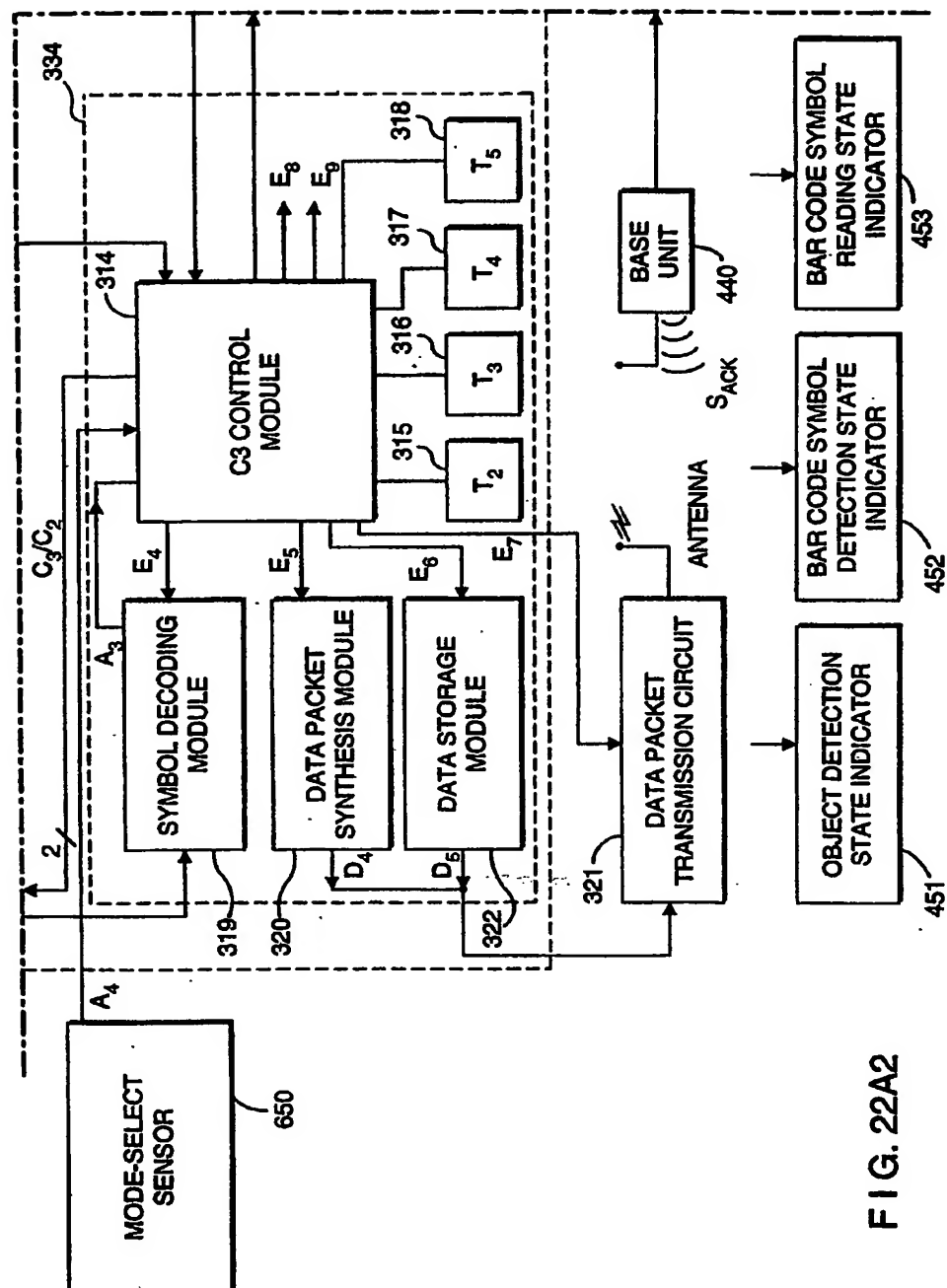


FIG. 22A1



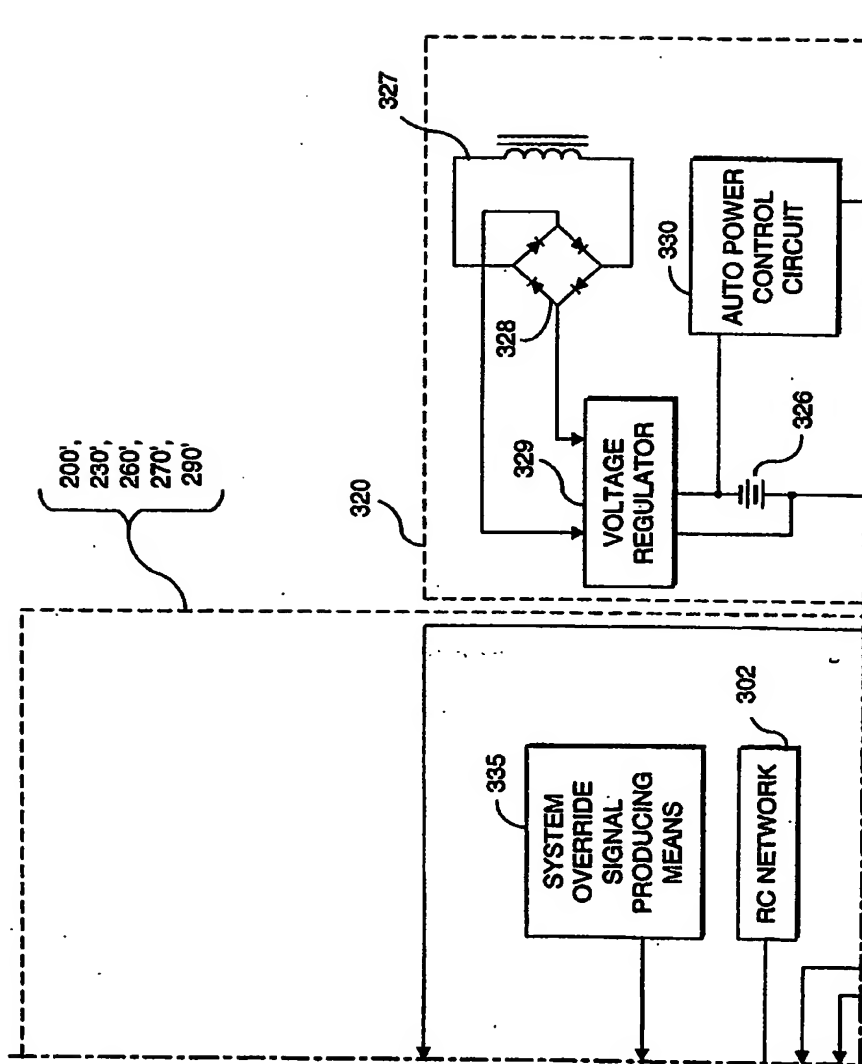


FIG. 22A3

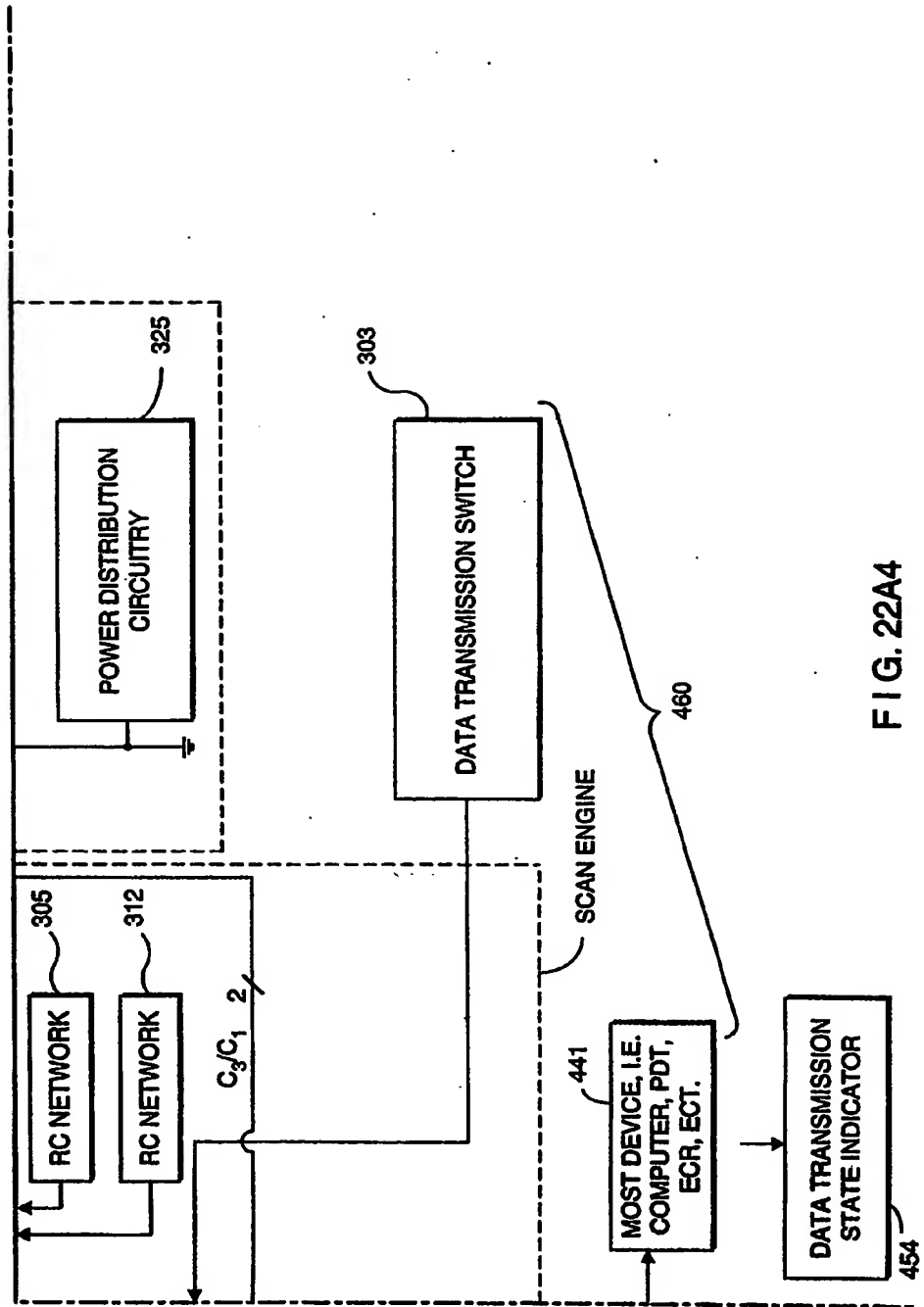


FIG. 22A4

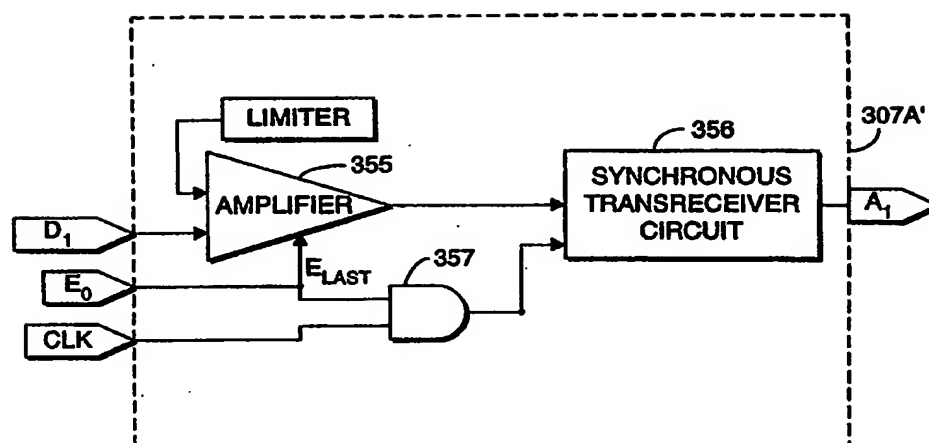


FIG. 22B

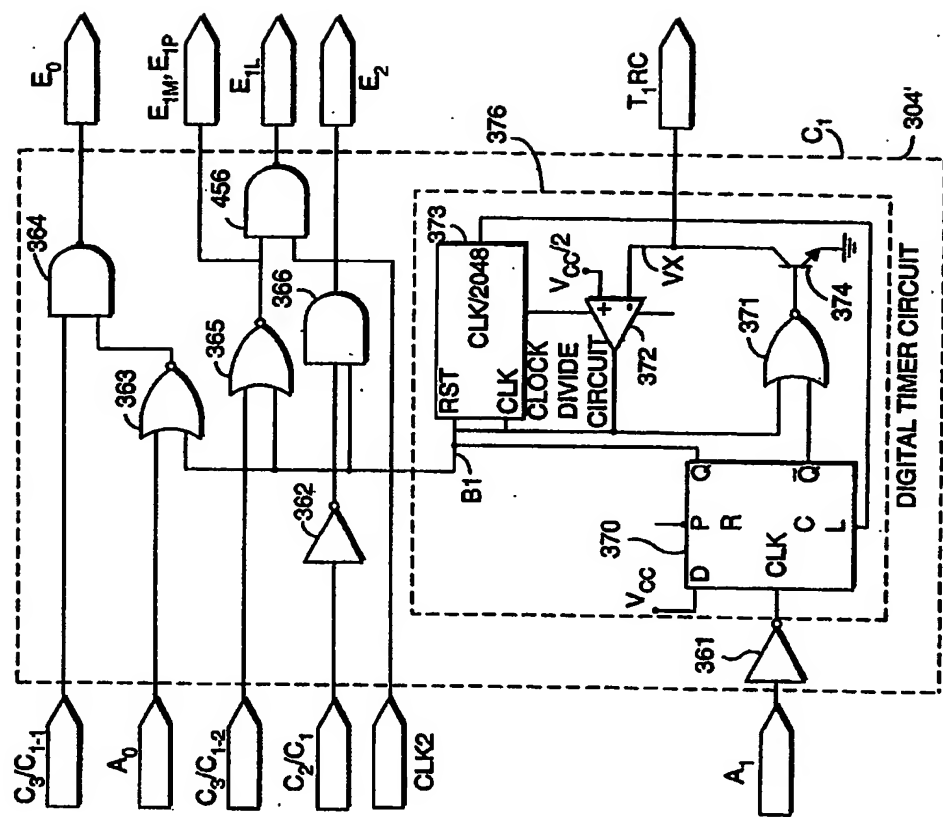


FIG. 22C

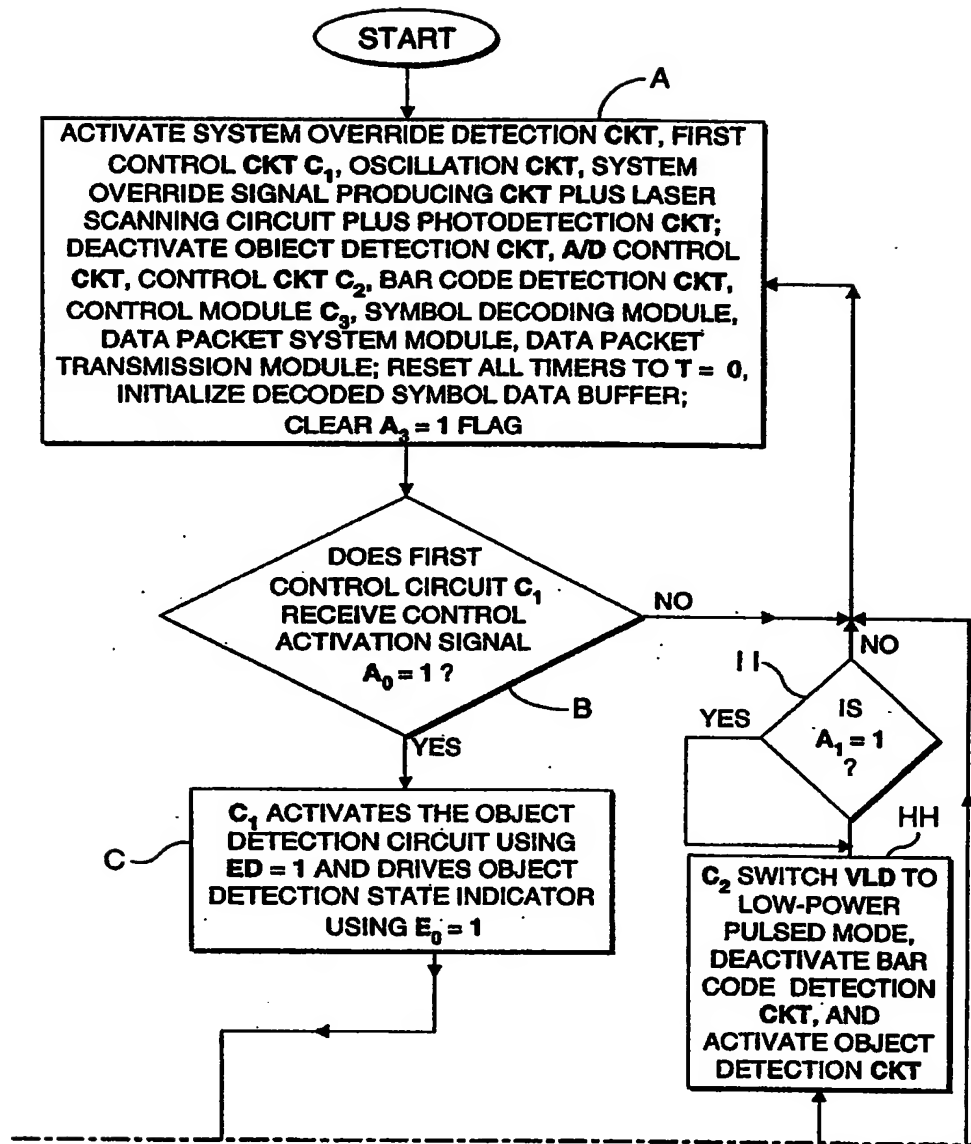
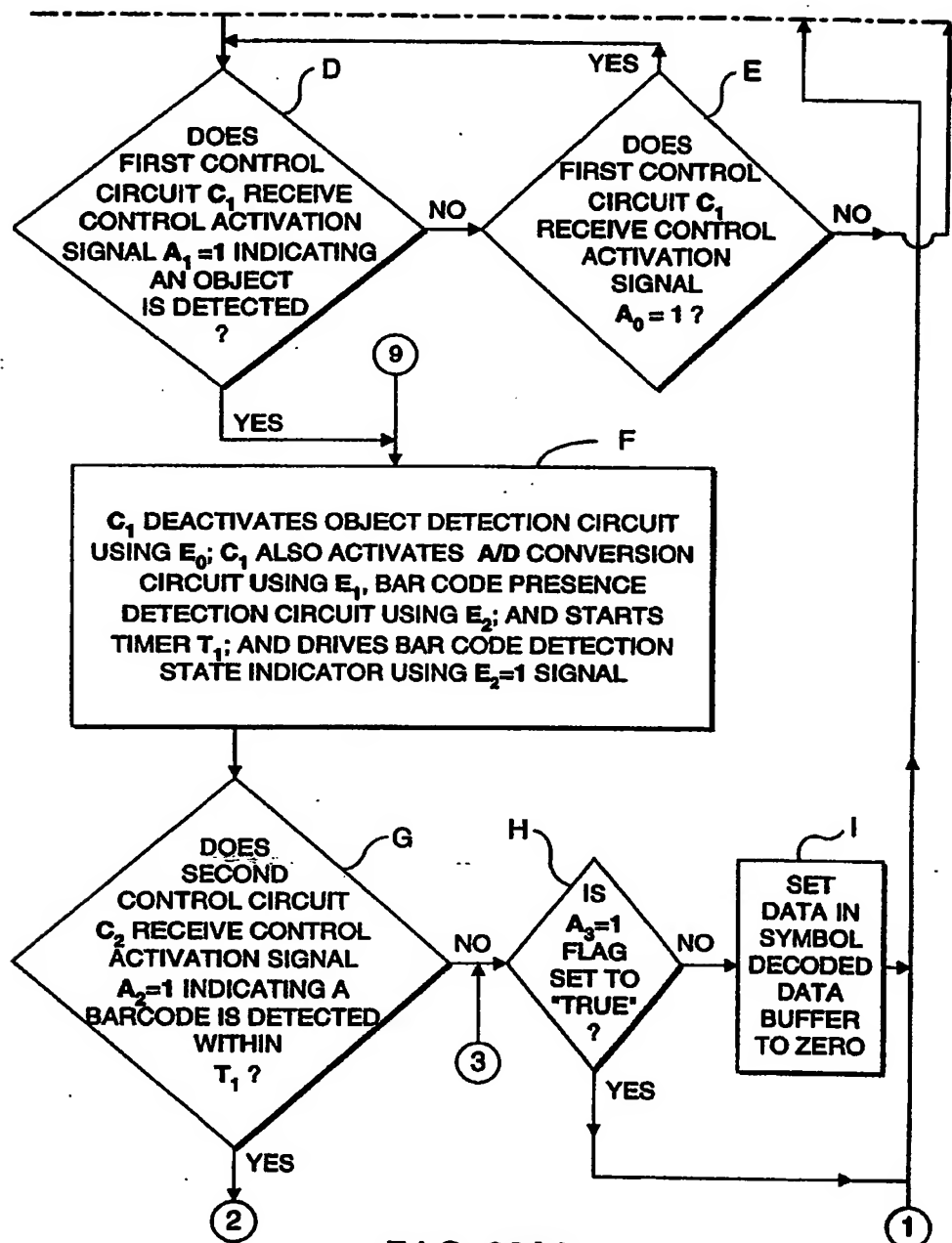


FIG. 23A1



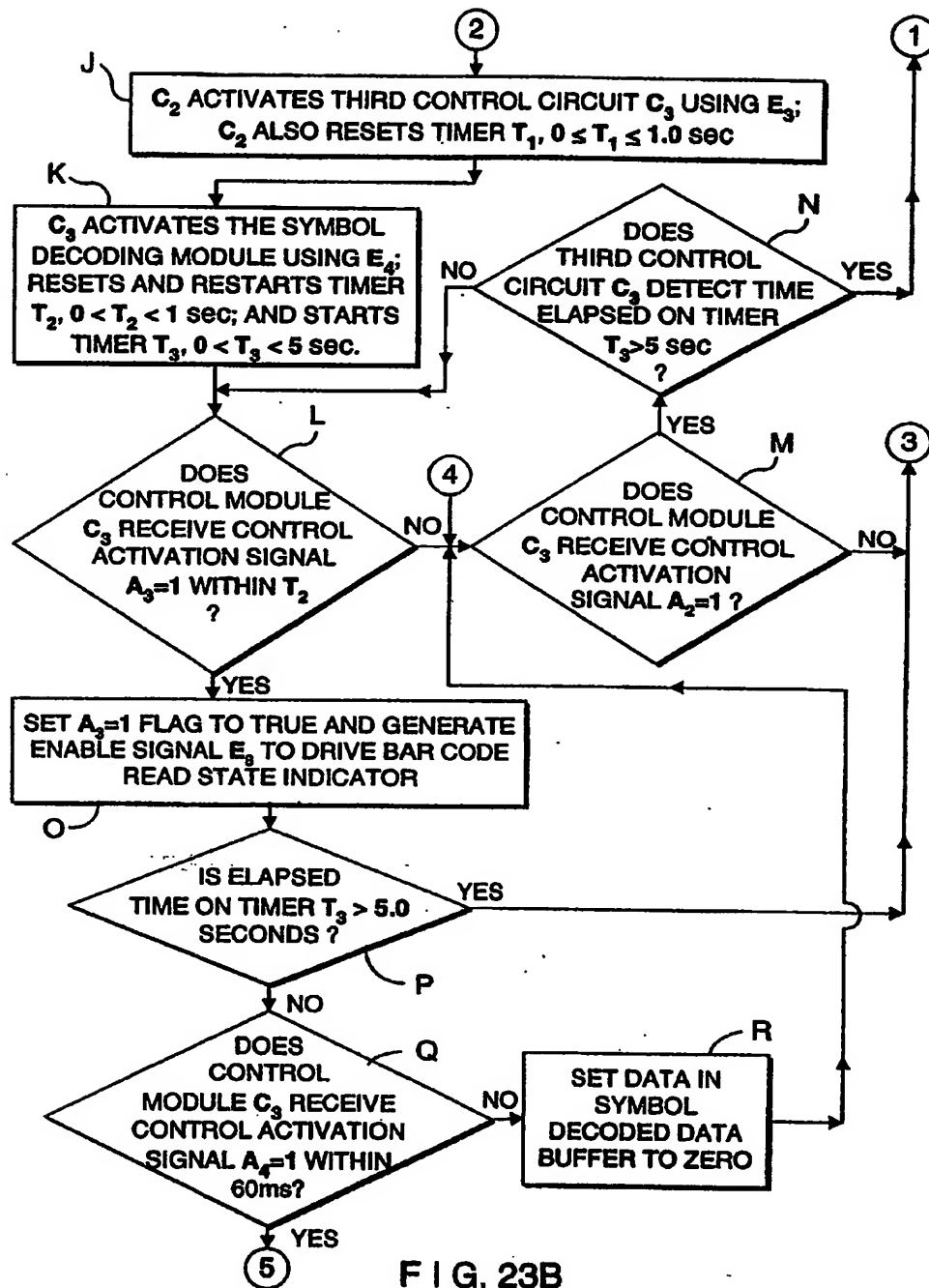


FIG. 23B

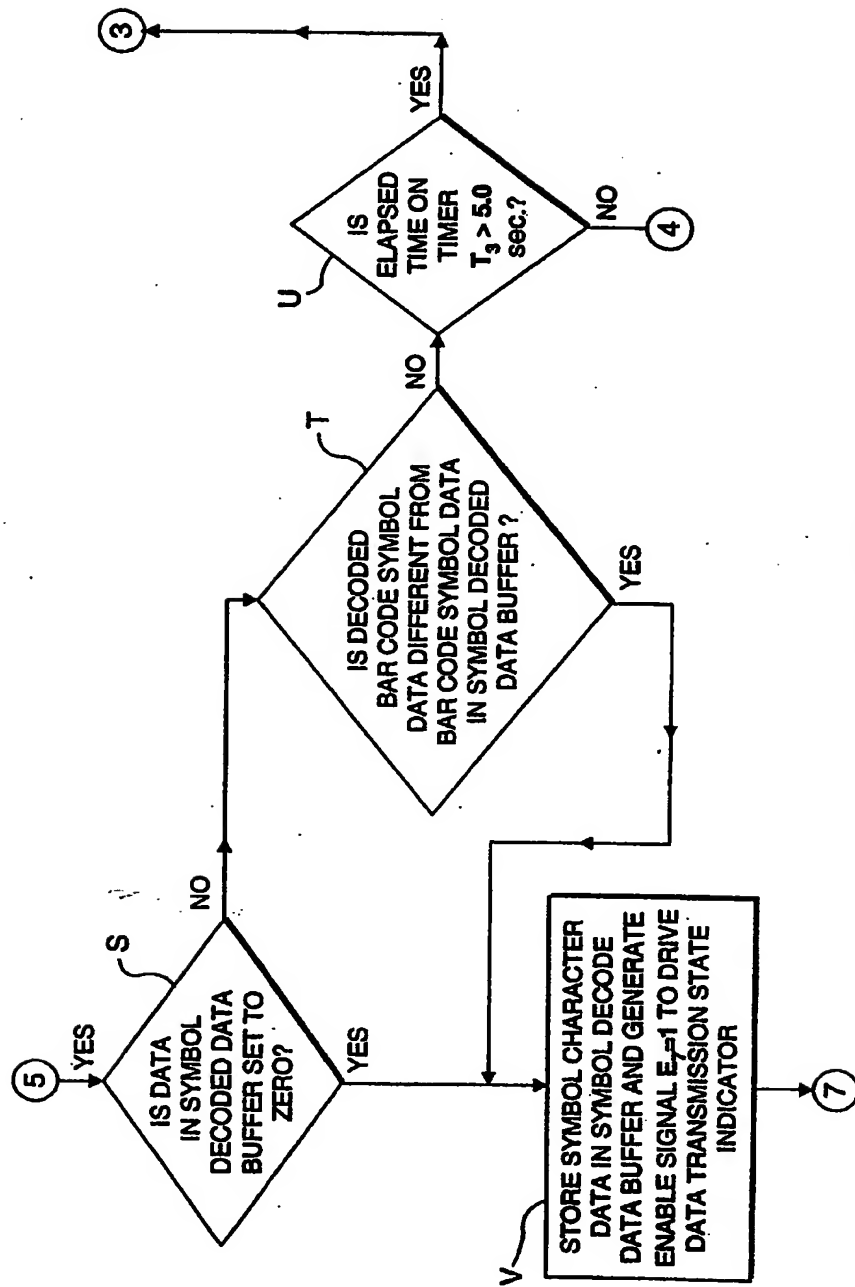


FIG. 23C

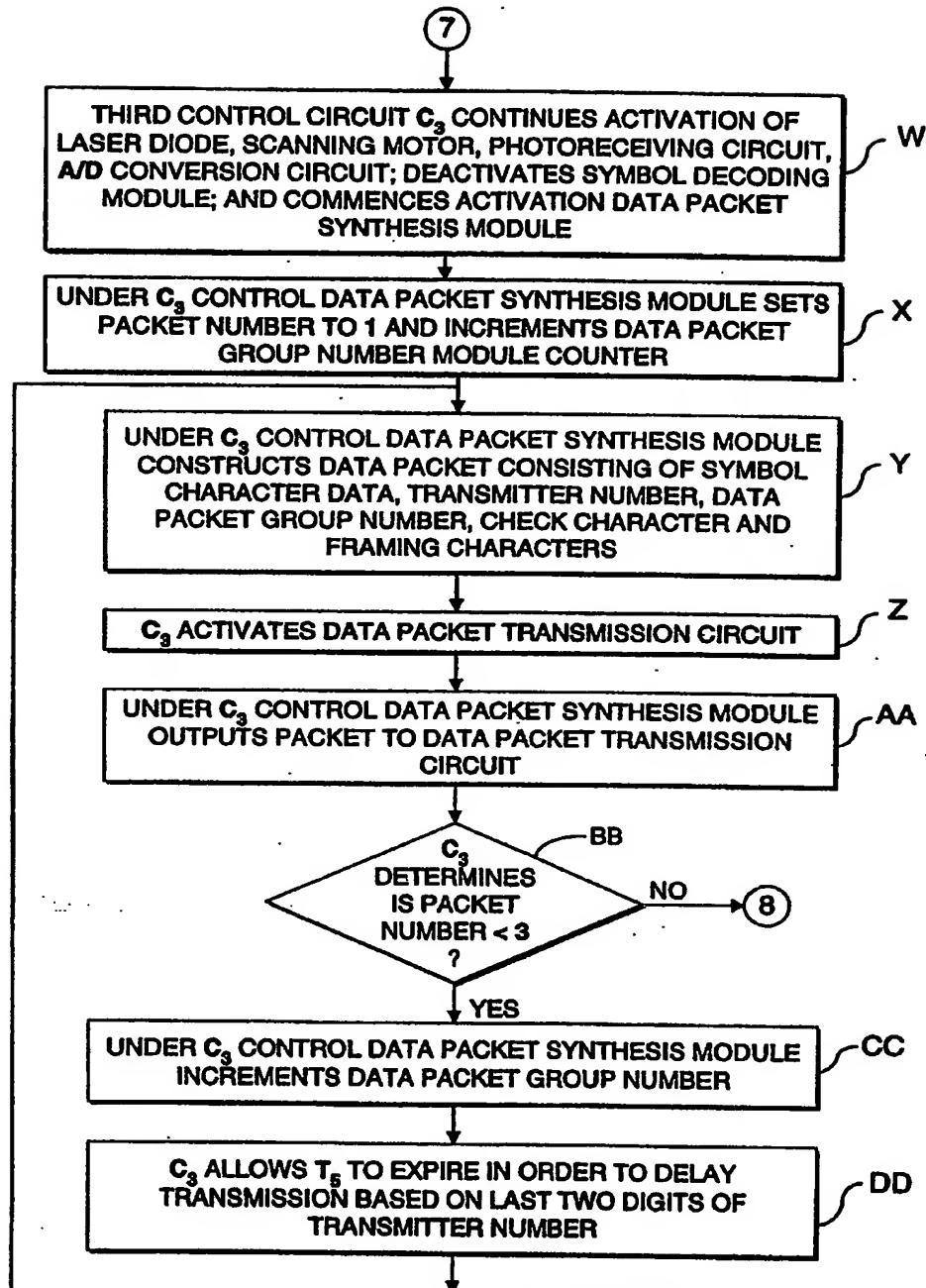
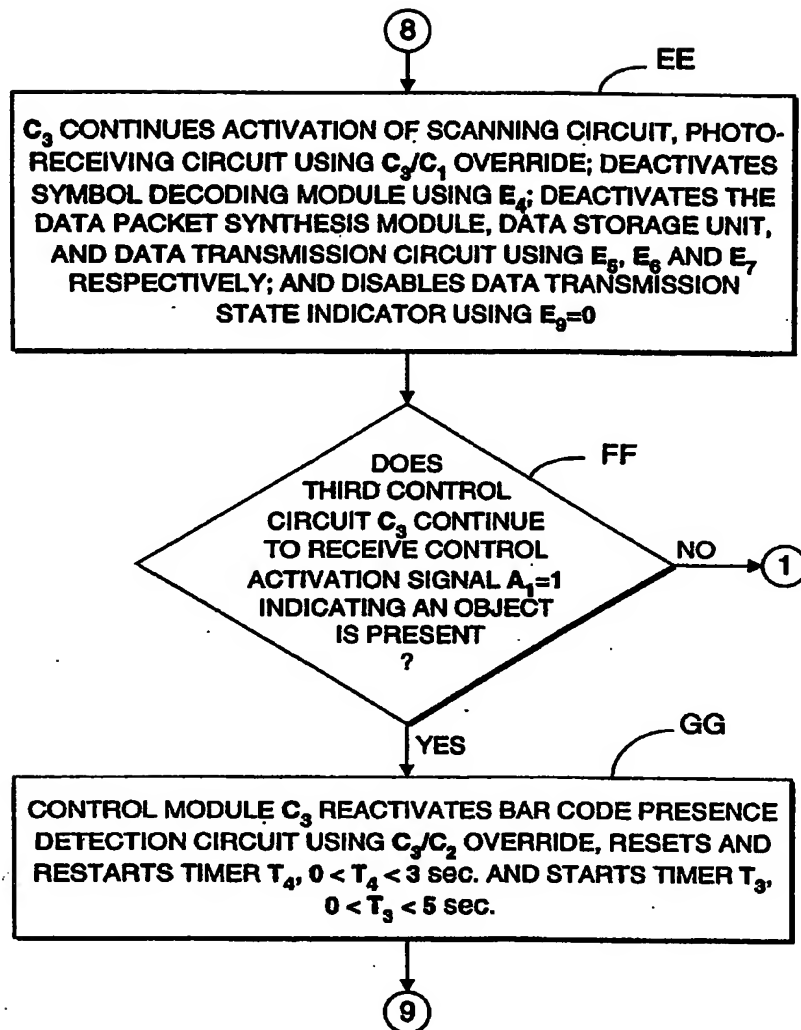


FIG. 23D



F.I G. 23E

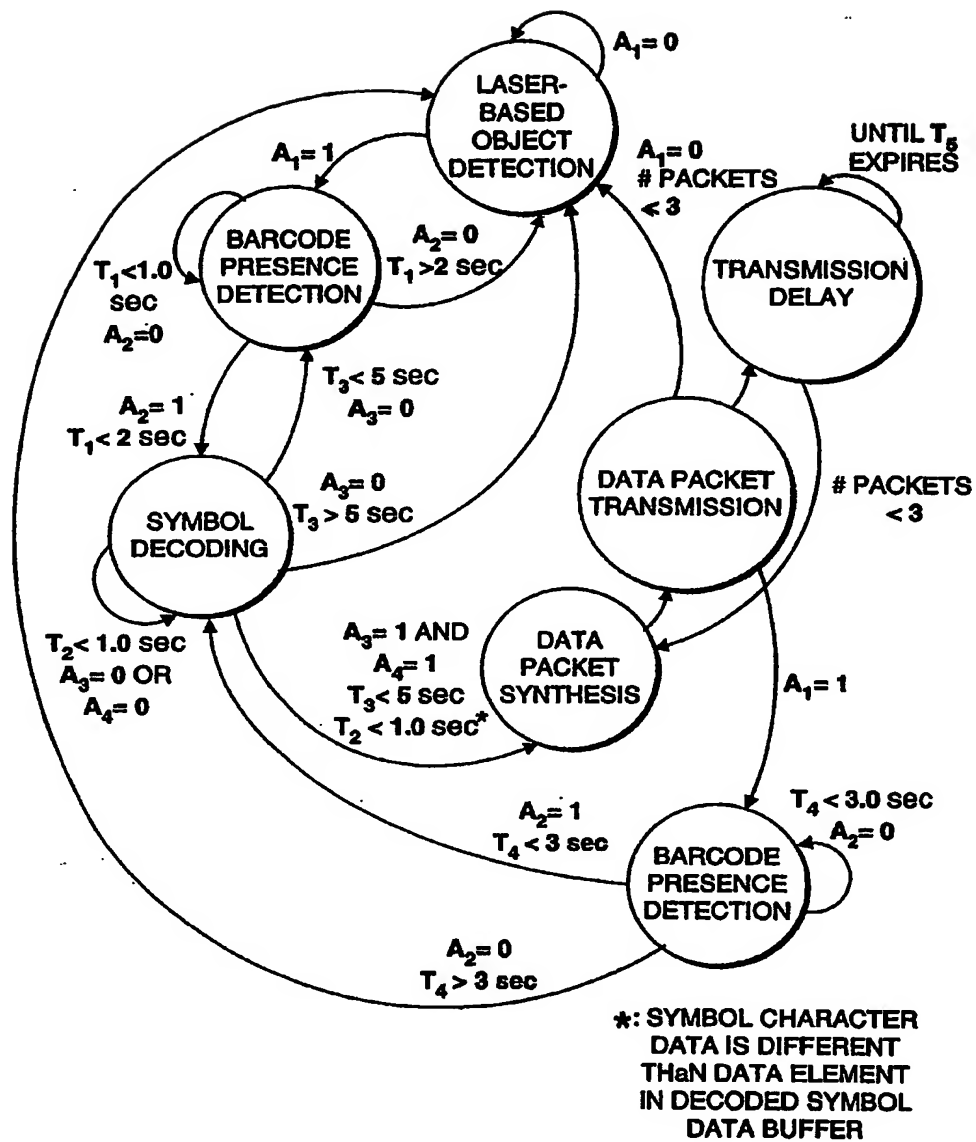
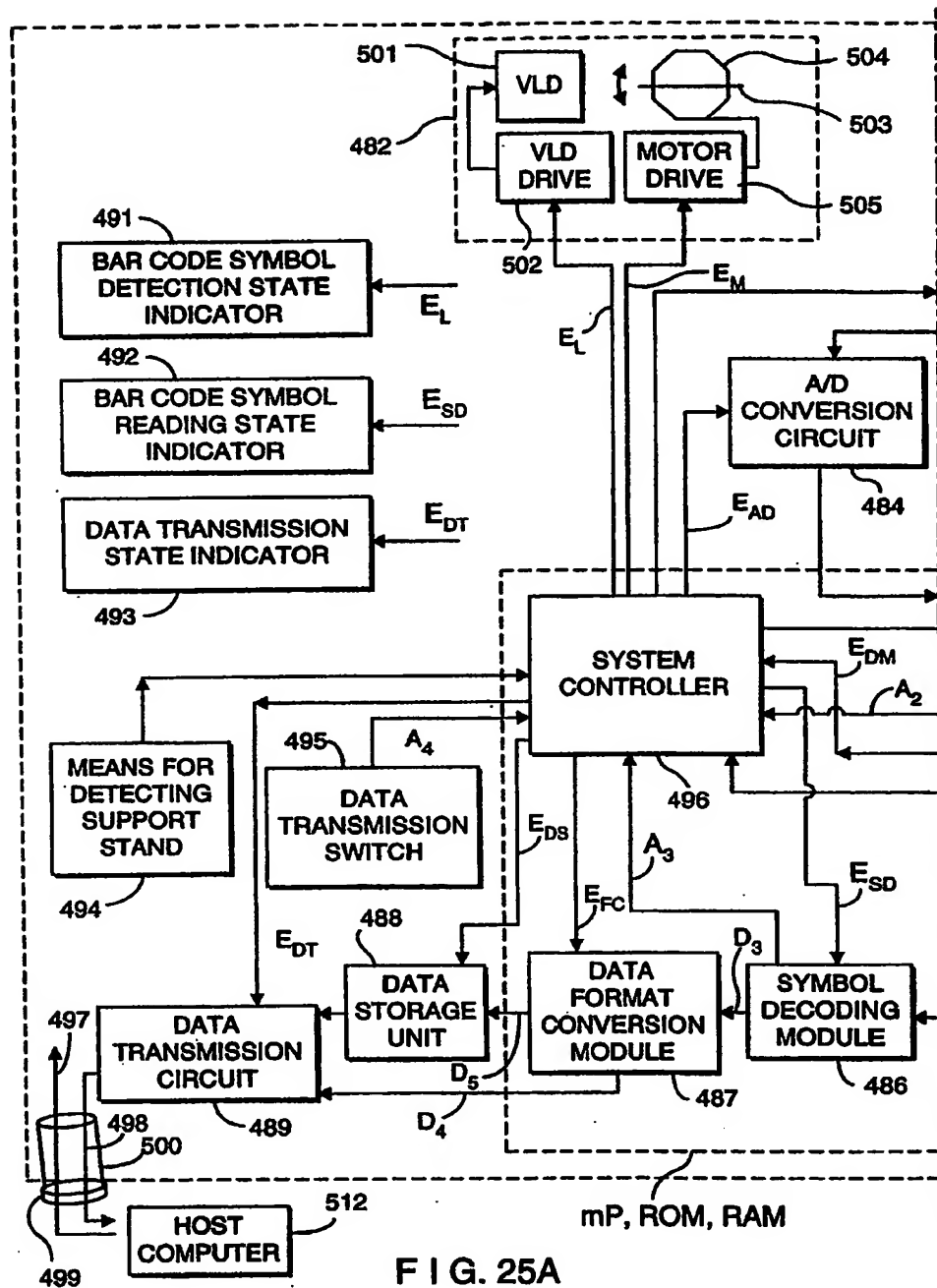


FIG. 24



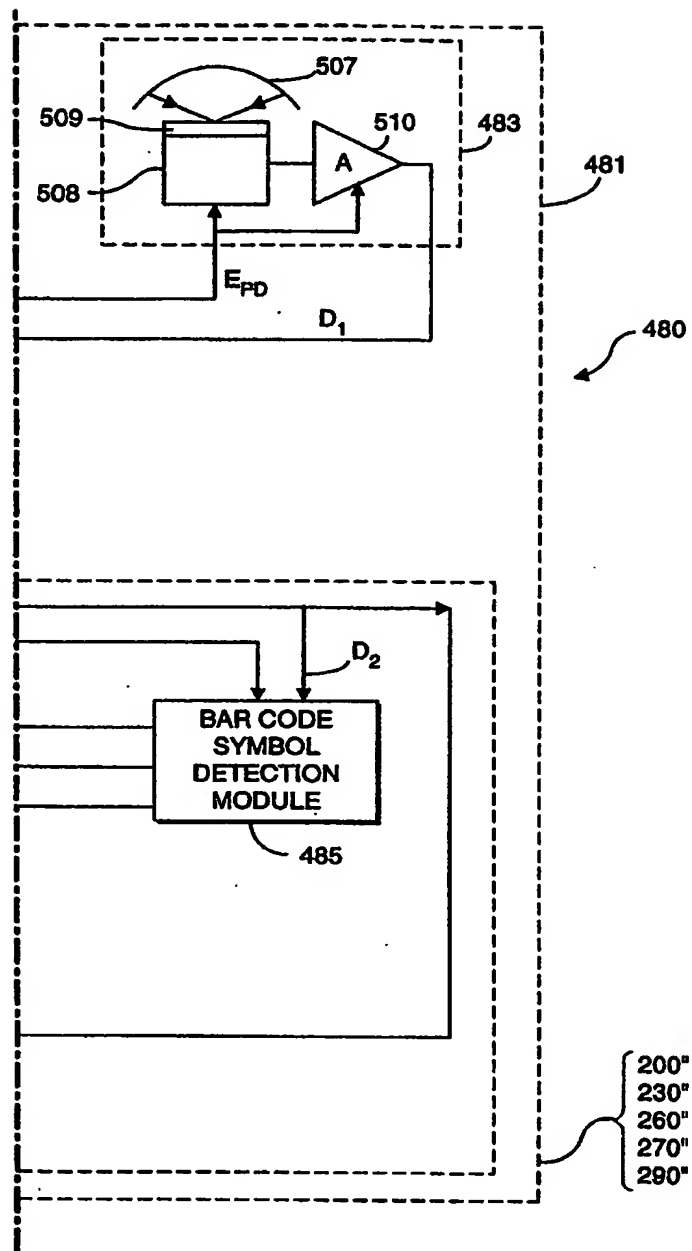
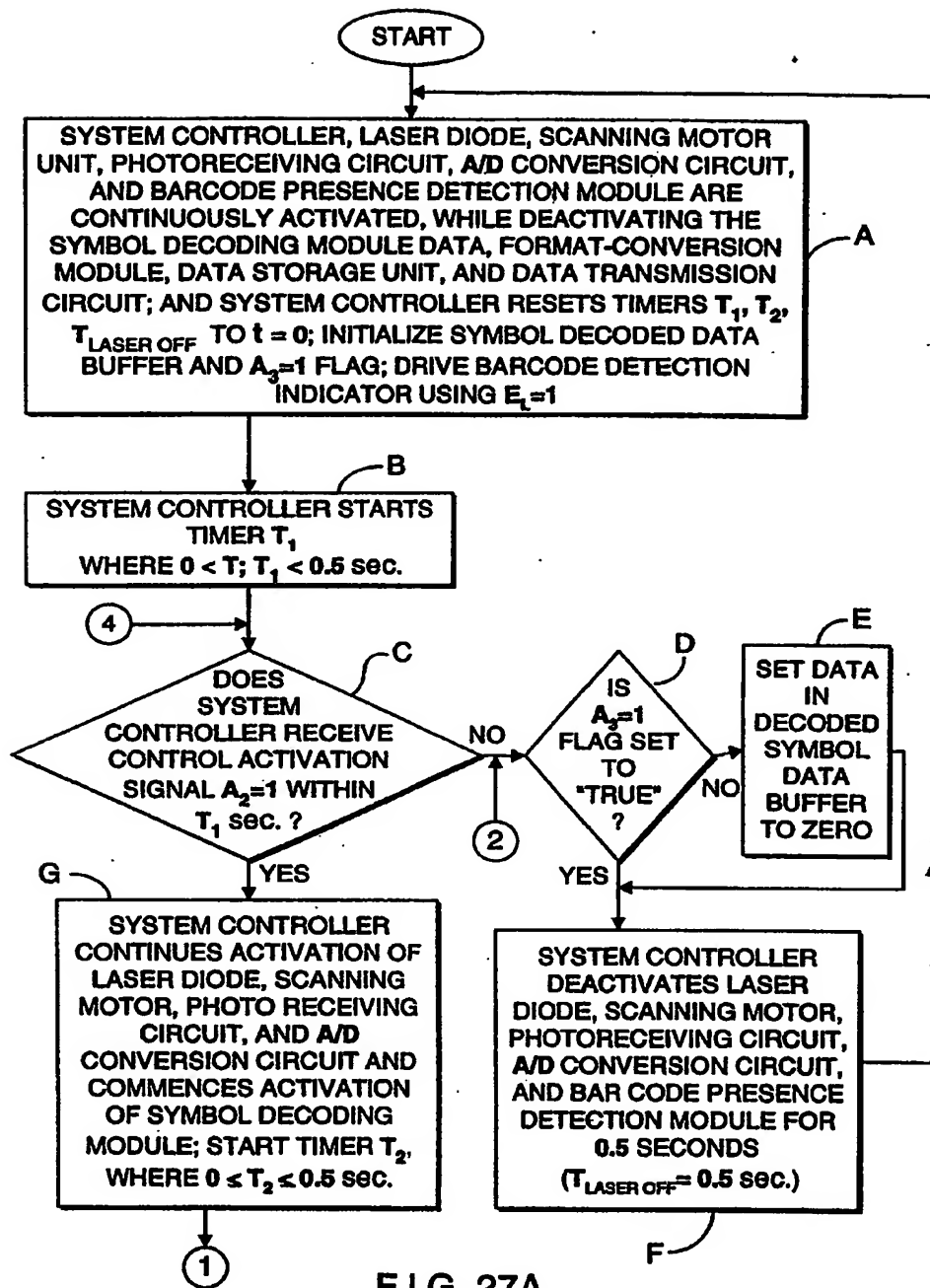


FIG. 25B



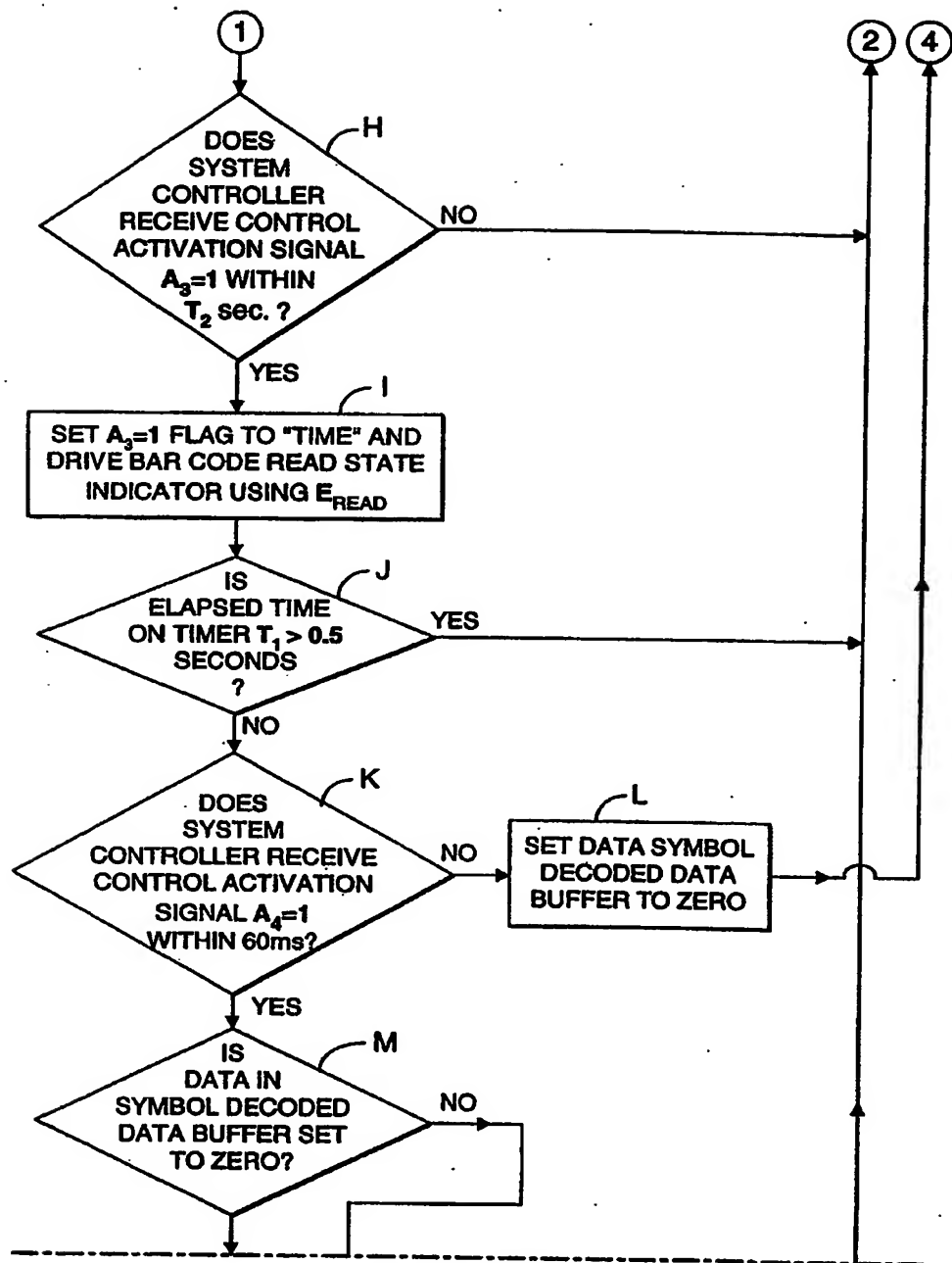


FIG. 27B1

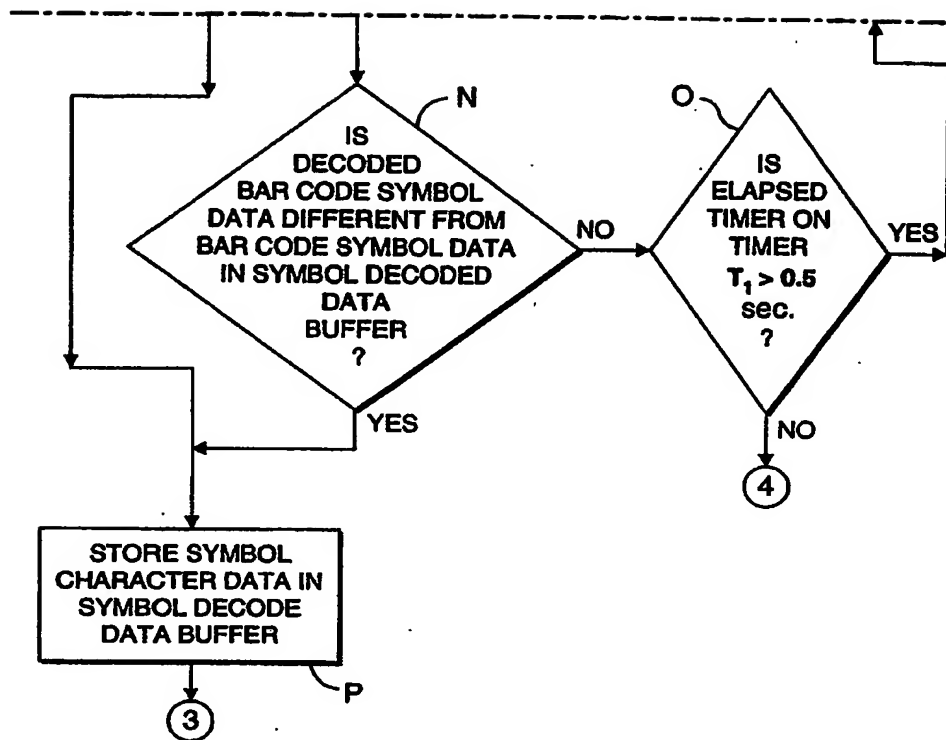


FIG. 27B2

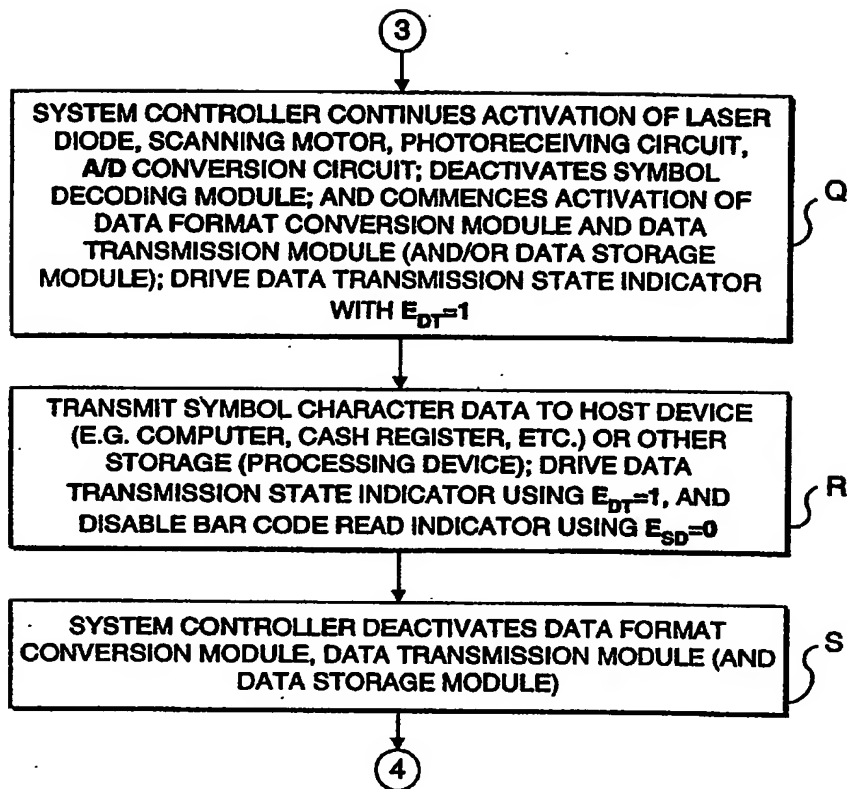


FIG. 27C

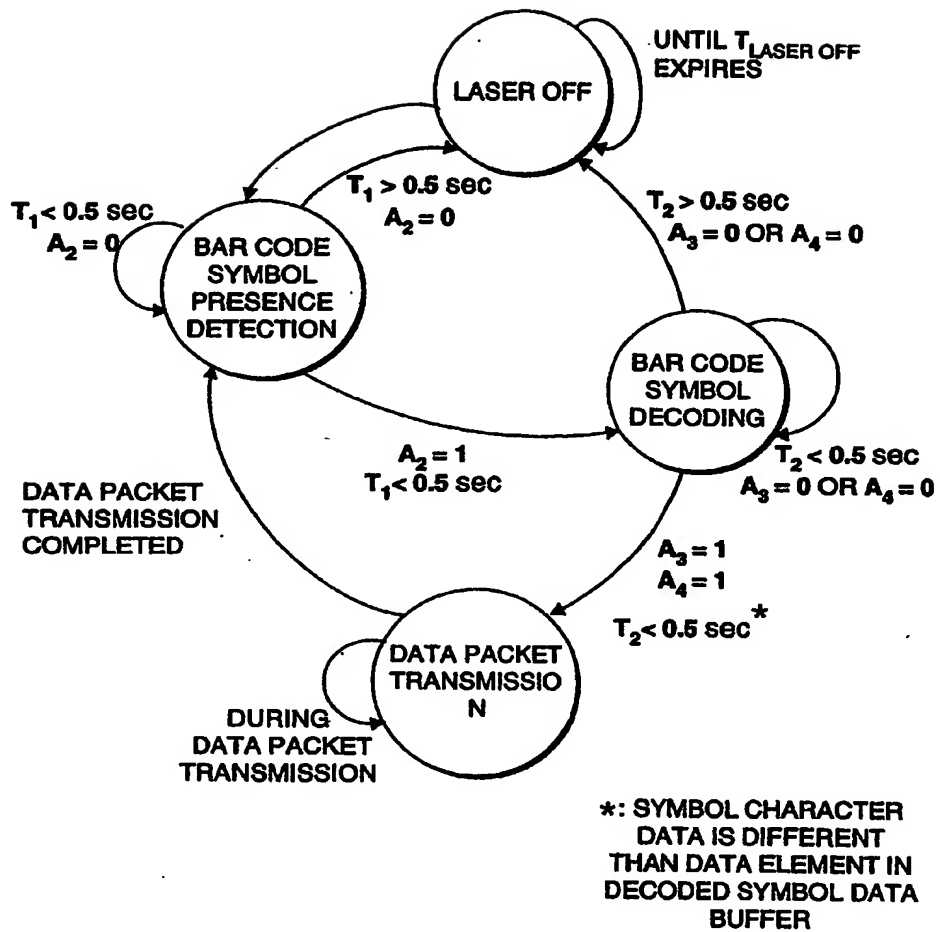


FIG. 28

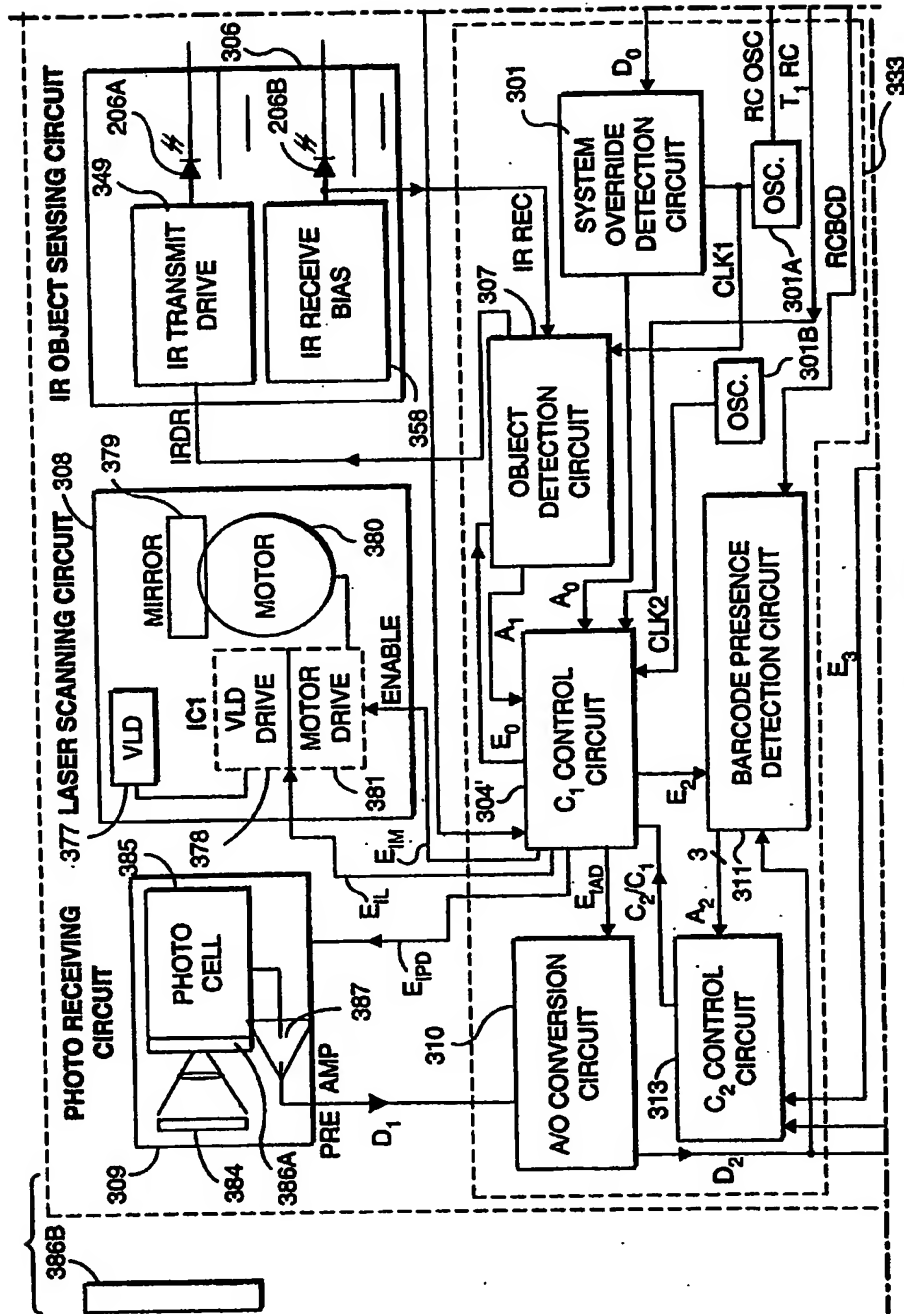


FIG. 29A1

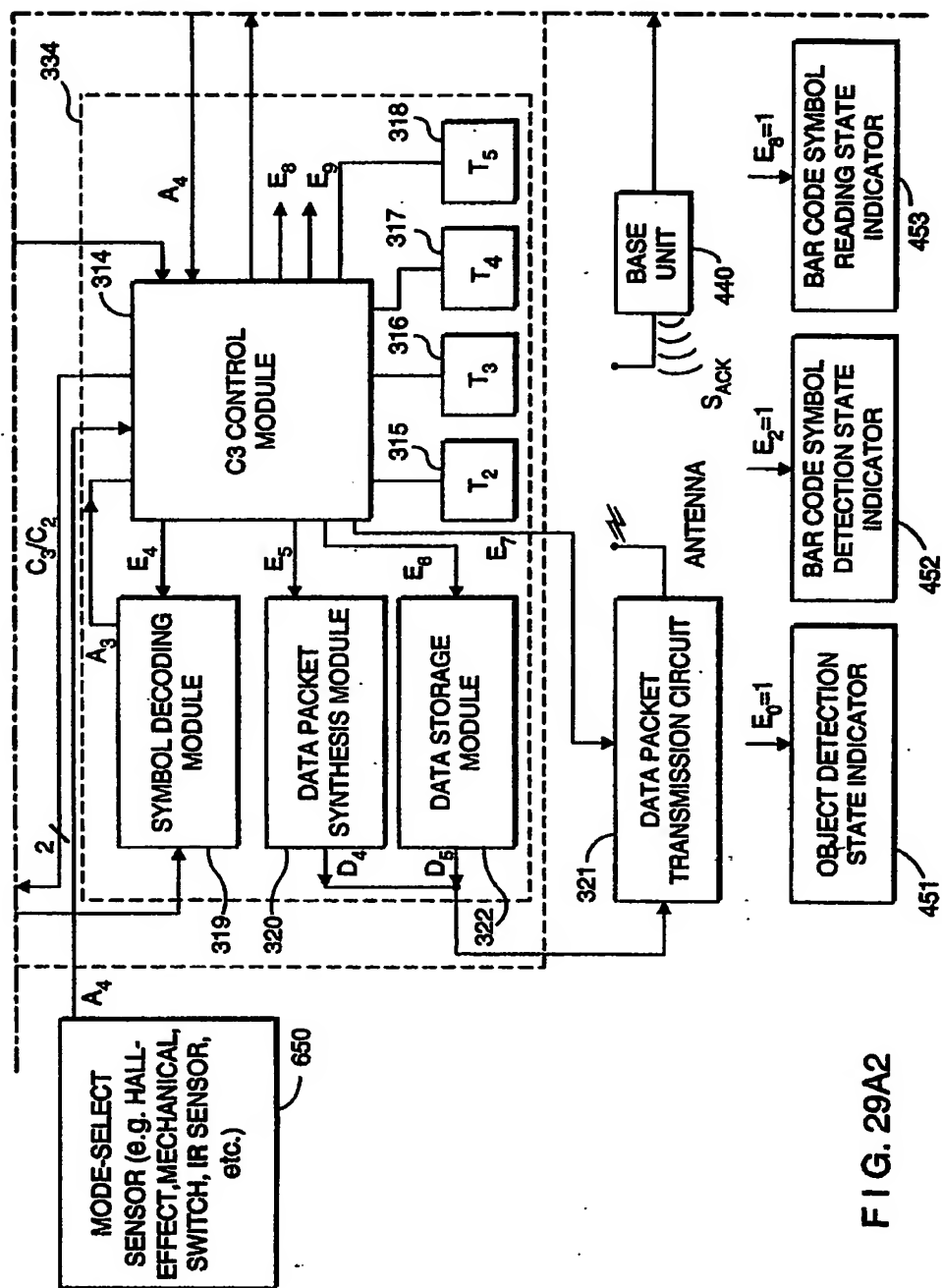


FIG. 29A2

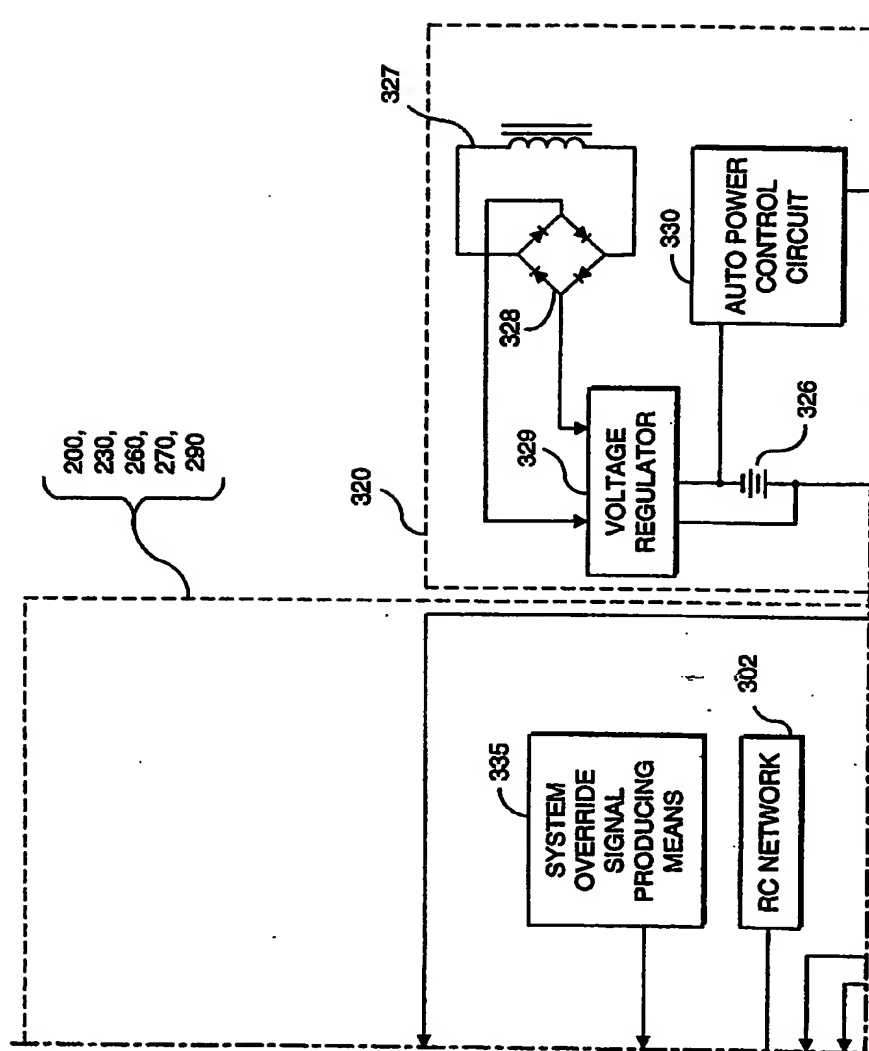


FIG. 29A3

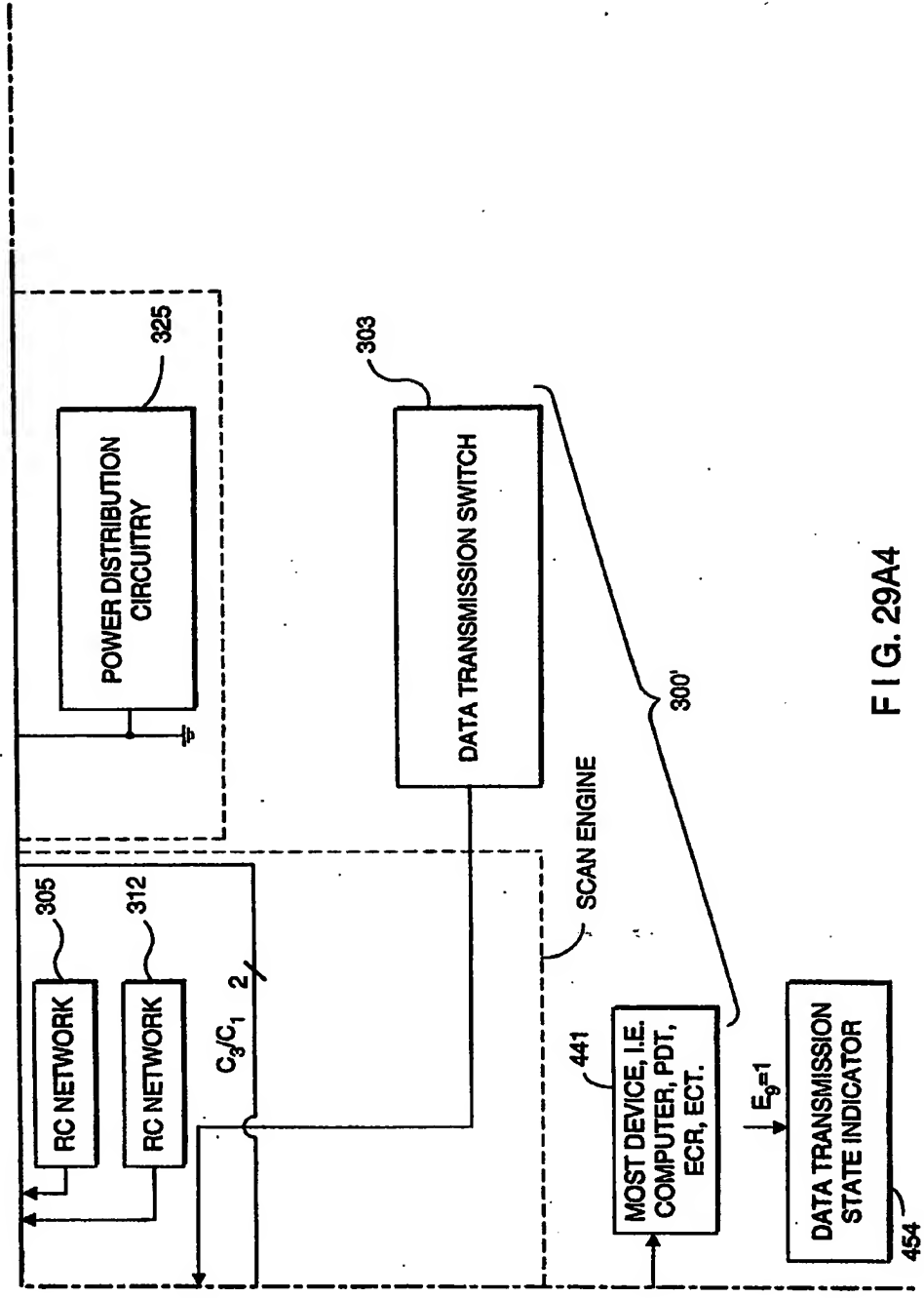
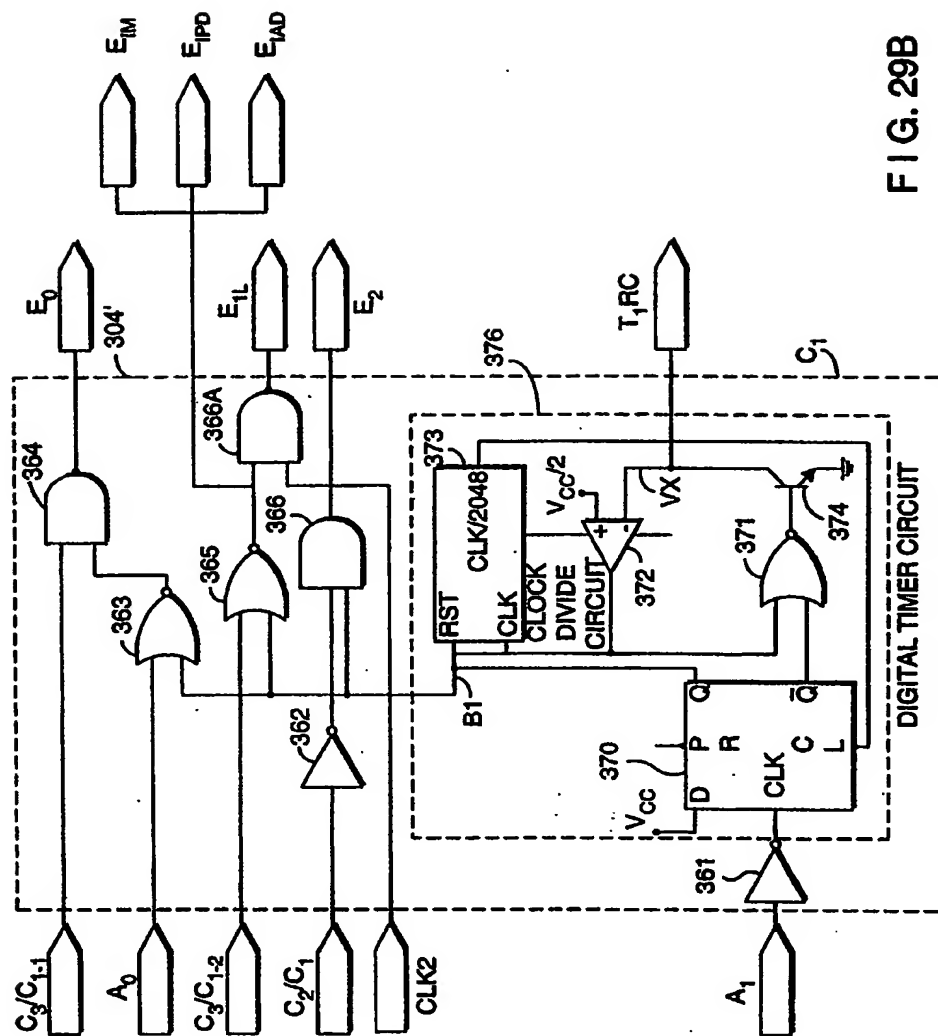


FIG. 29A4



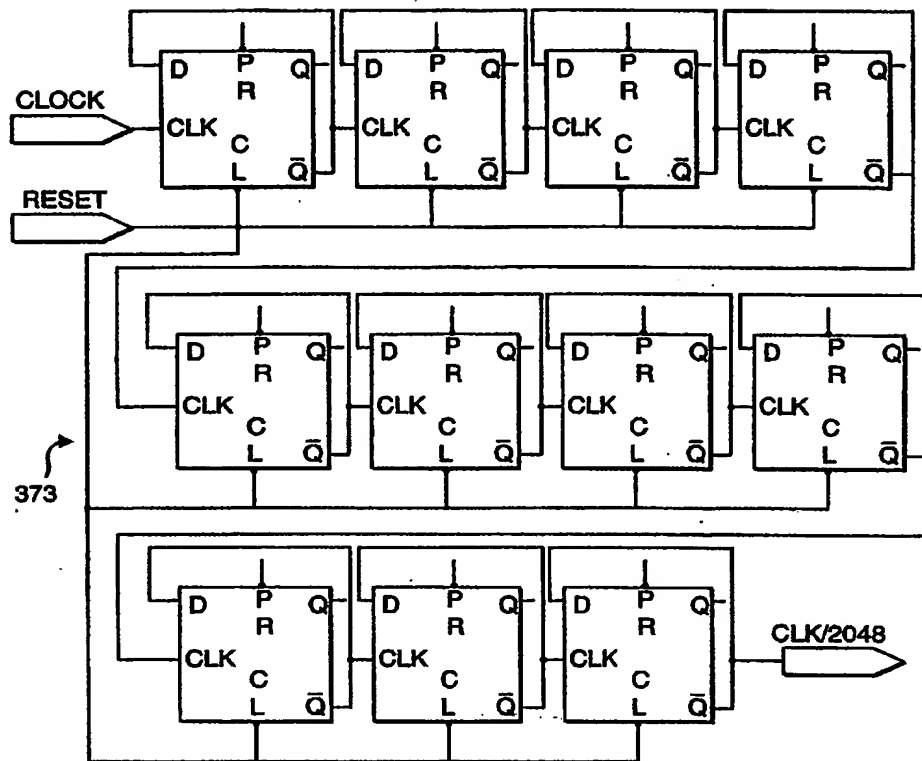


FIG. 29C

$$\left\{ \begin{array}{l} E_0 = \overline{(B1 + A_0) (C_3 / C_{1-1})} \\ E_{IM} = E_{IPD} = E_{IAD} = \overline{(C_3 / C_{1-2}) + B1} \\ E_L = \overline{[(C_3 / C_{1-1}) + B1] [B2]} \\ E_2 = \overline{(C_2 / C_1) (B1)} \end{array} \right.$$

FIG. 29D

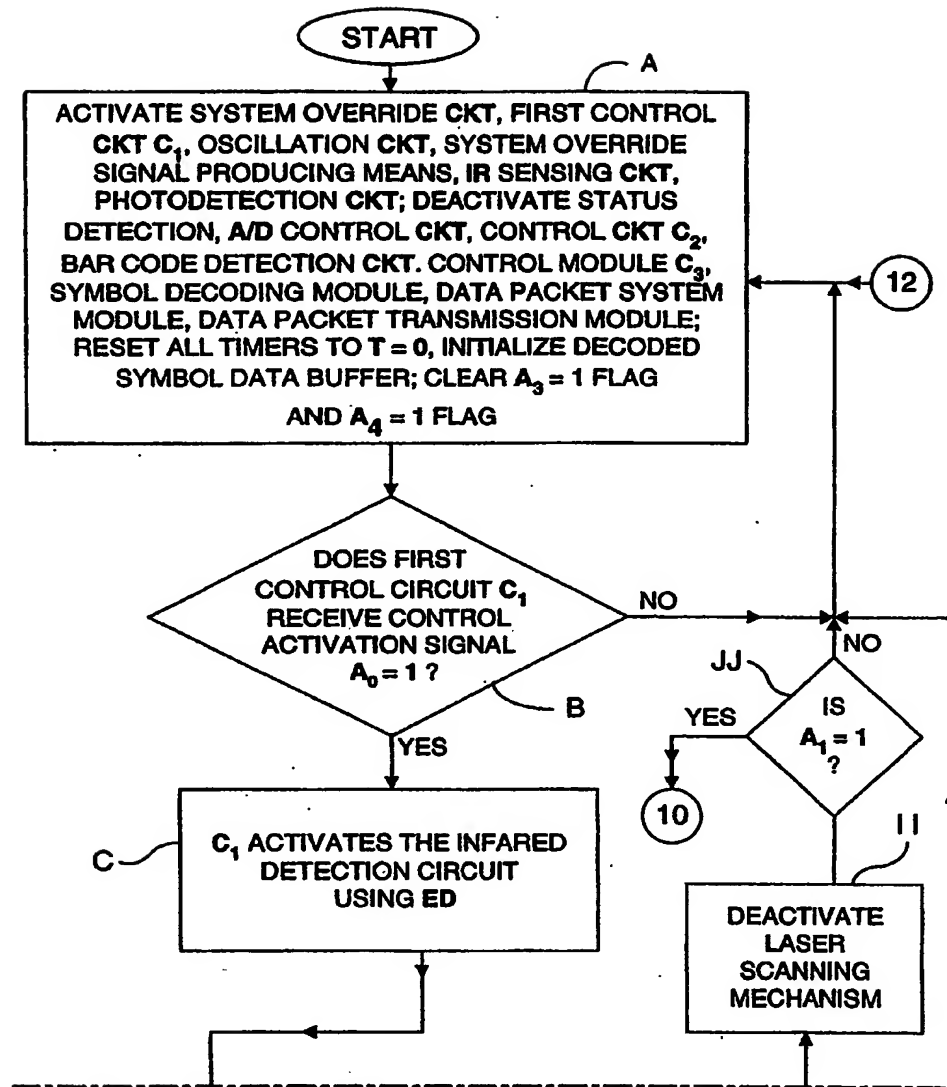


FIG. 30A1

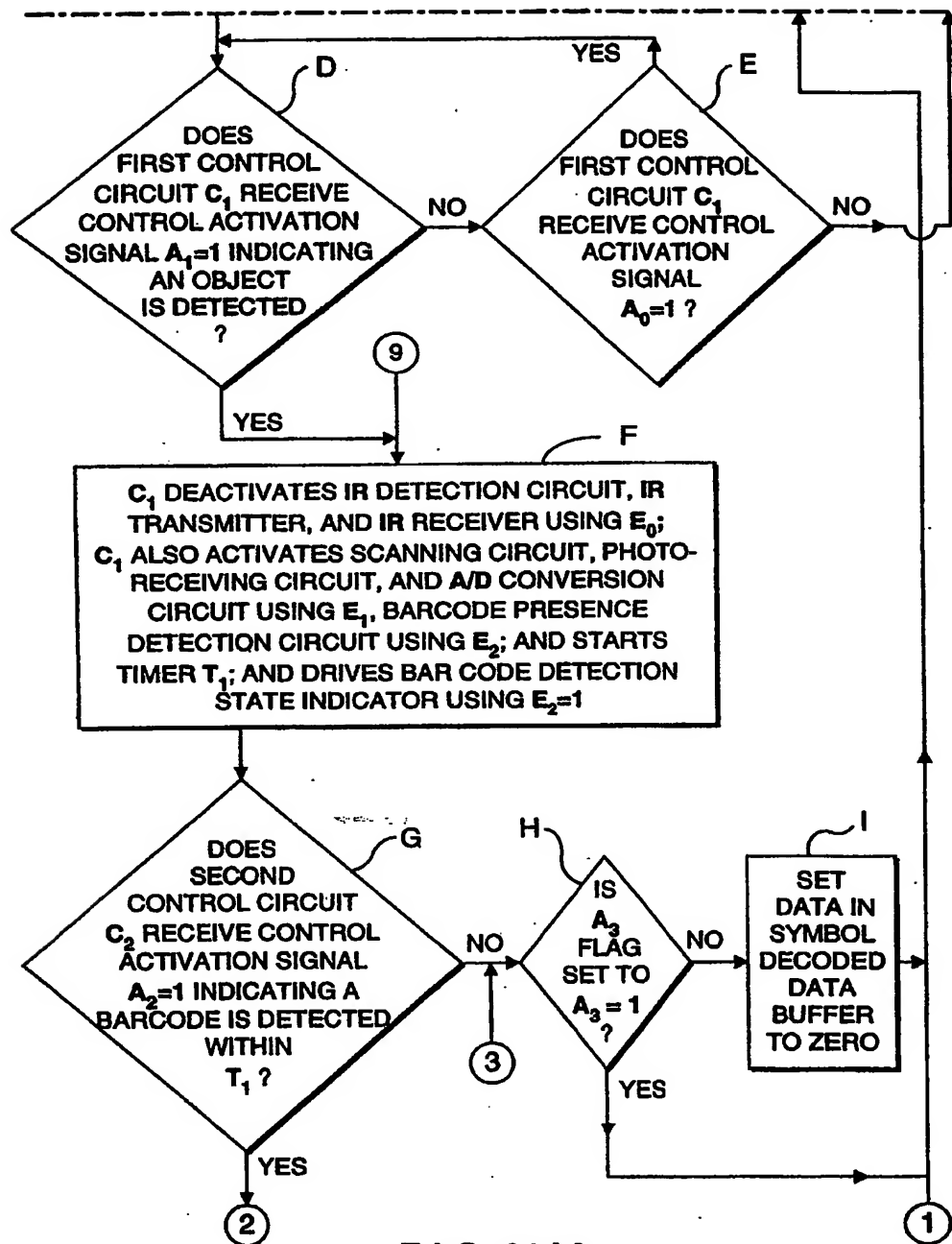


FIG. 30A2

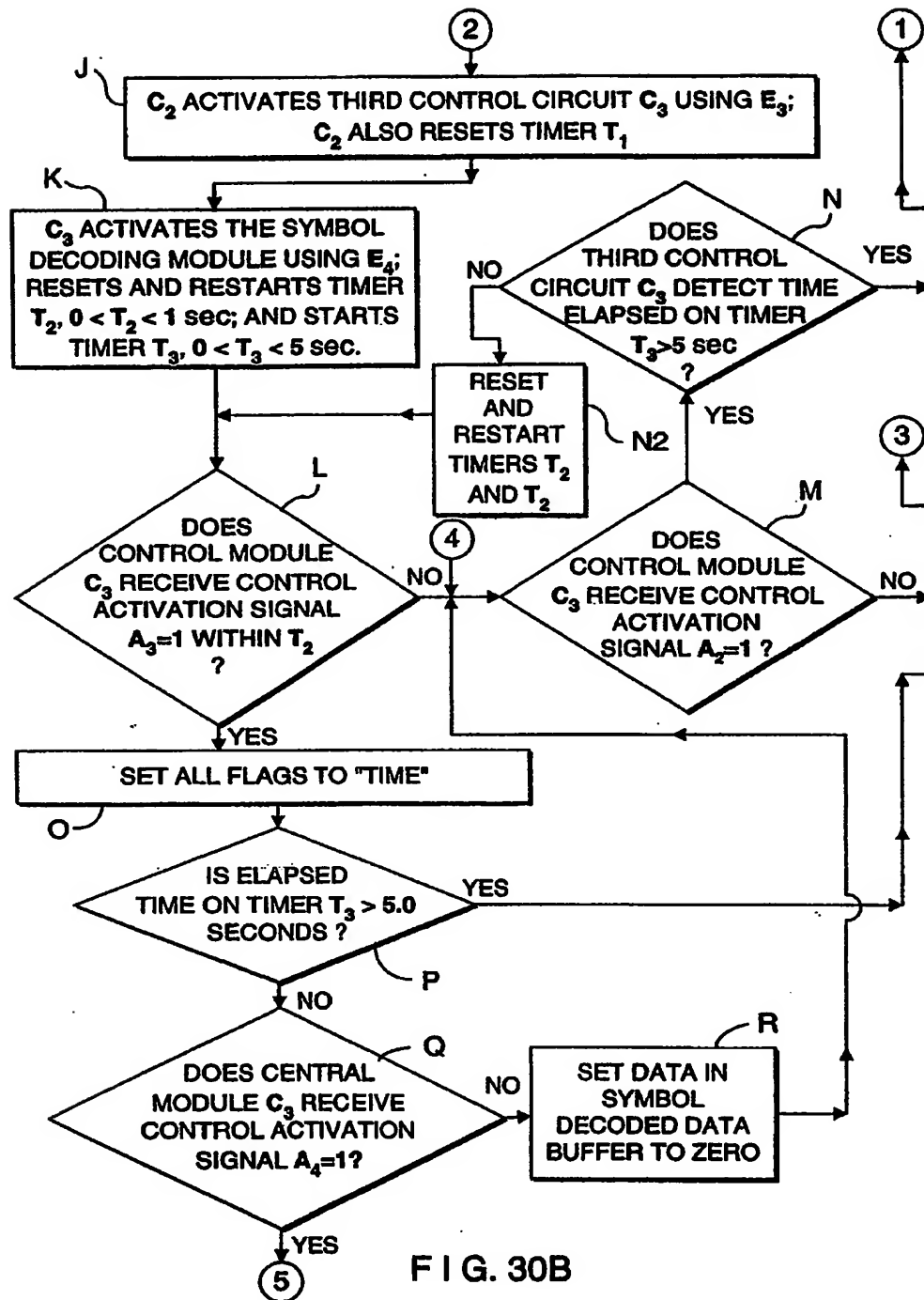


FIG. 30B

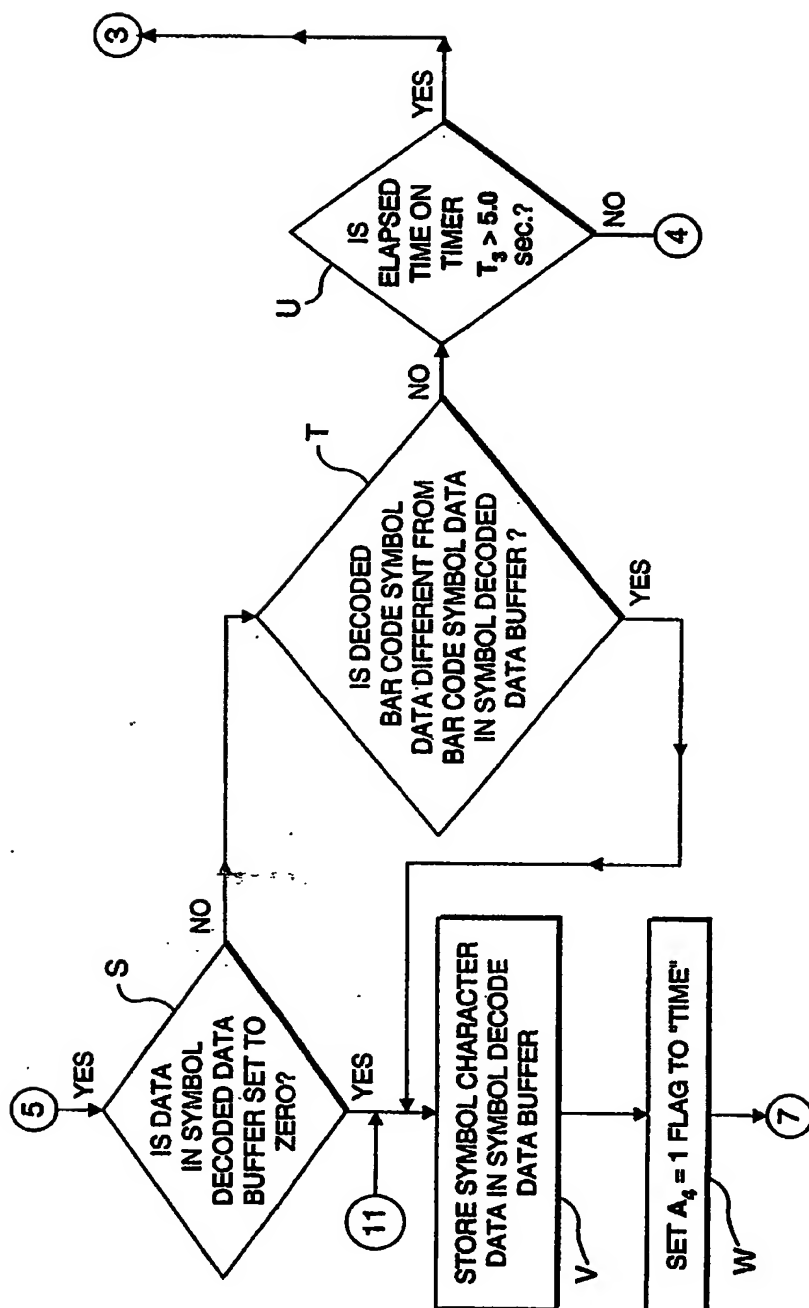


FIG. 30C

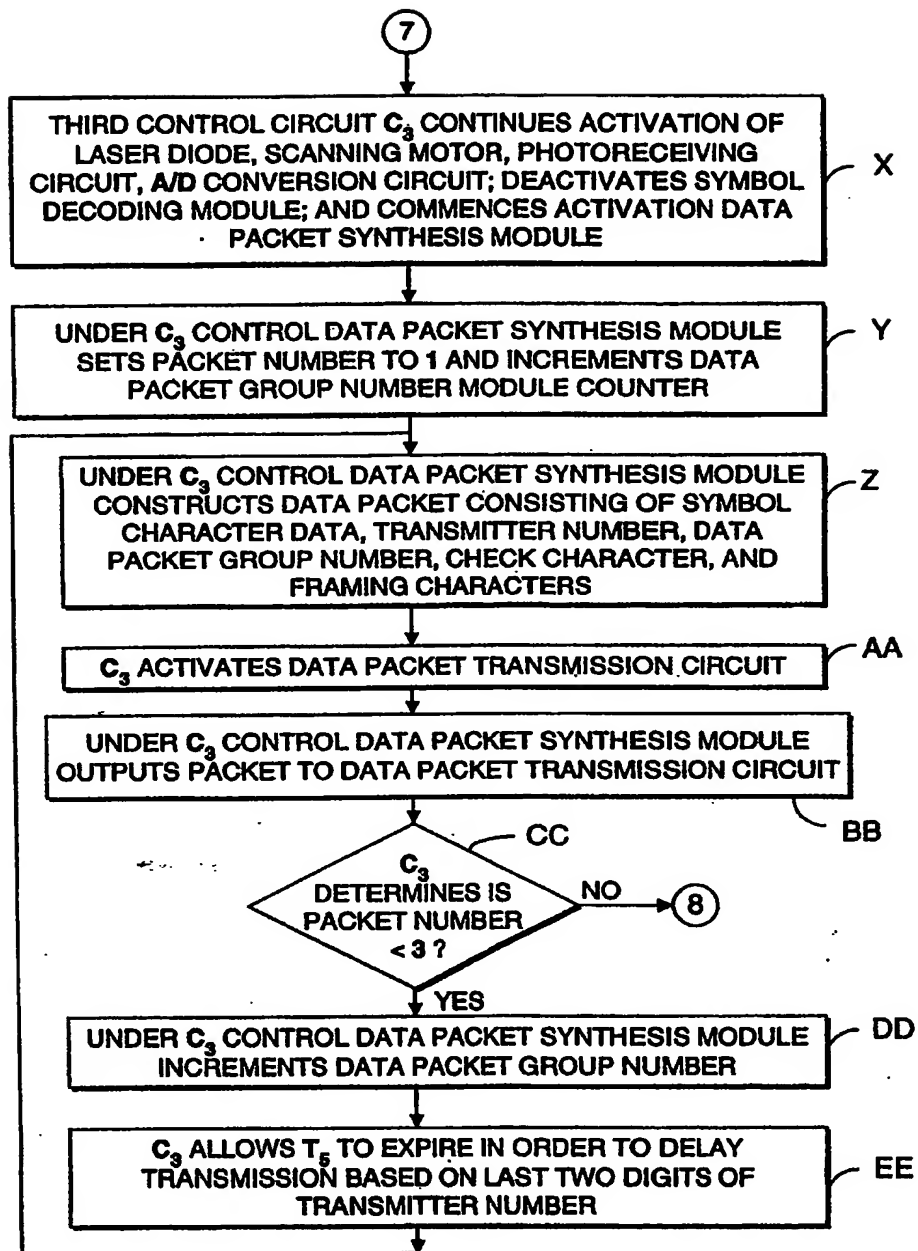


FIG. 30D

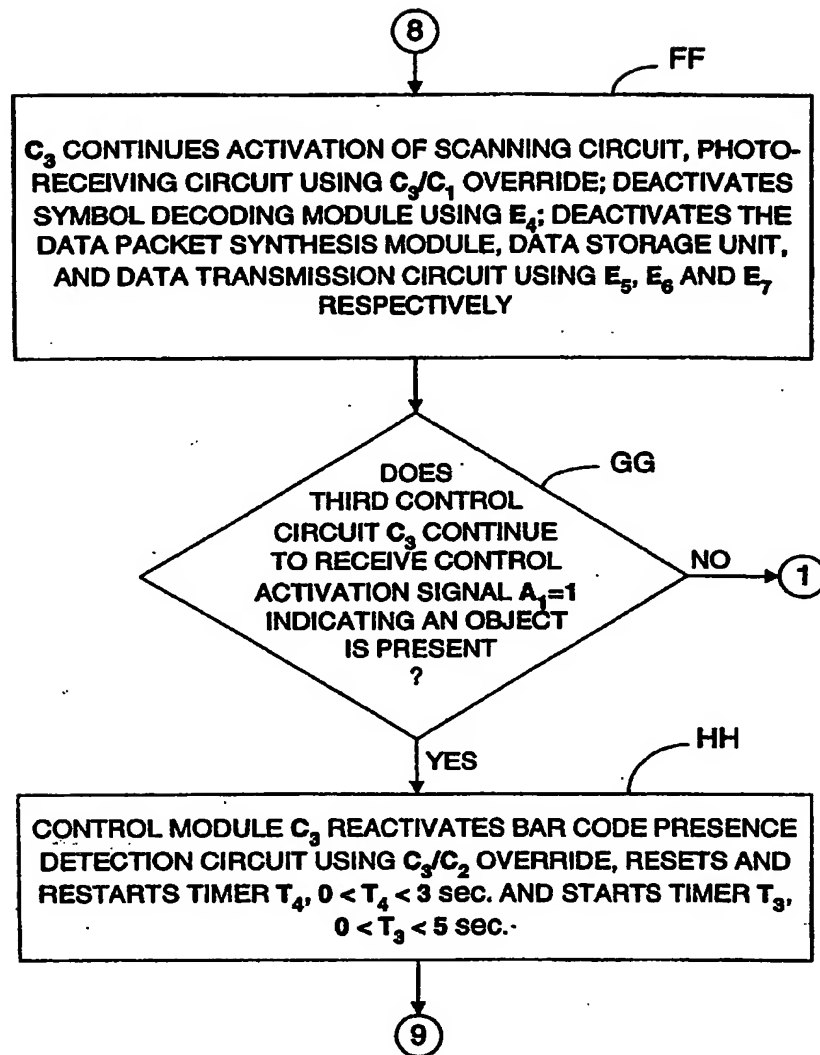
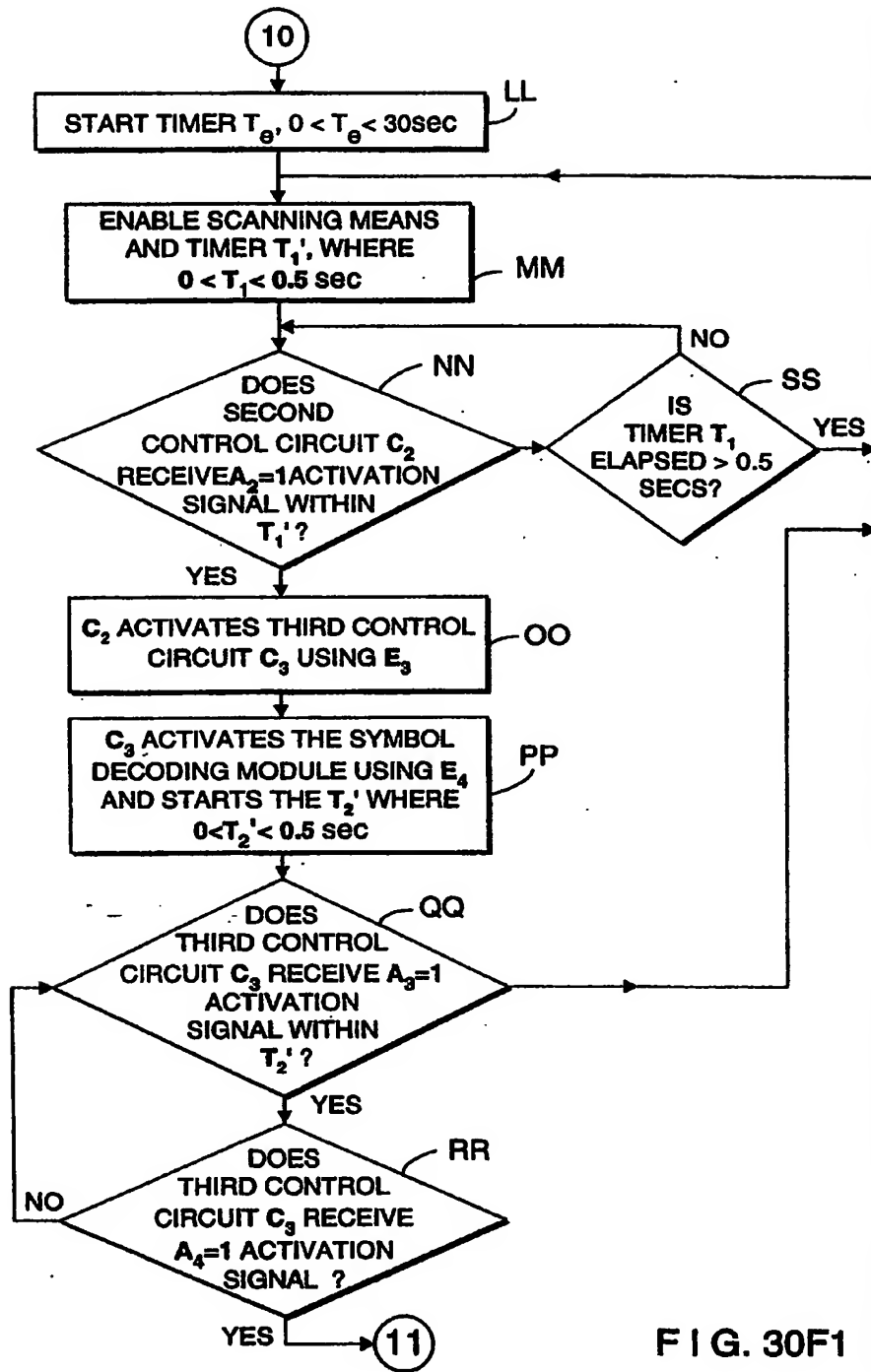
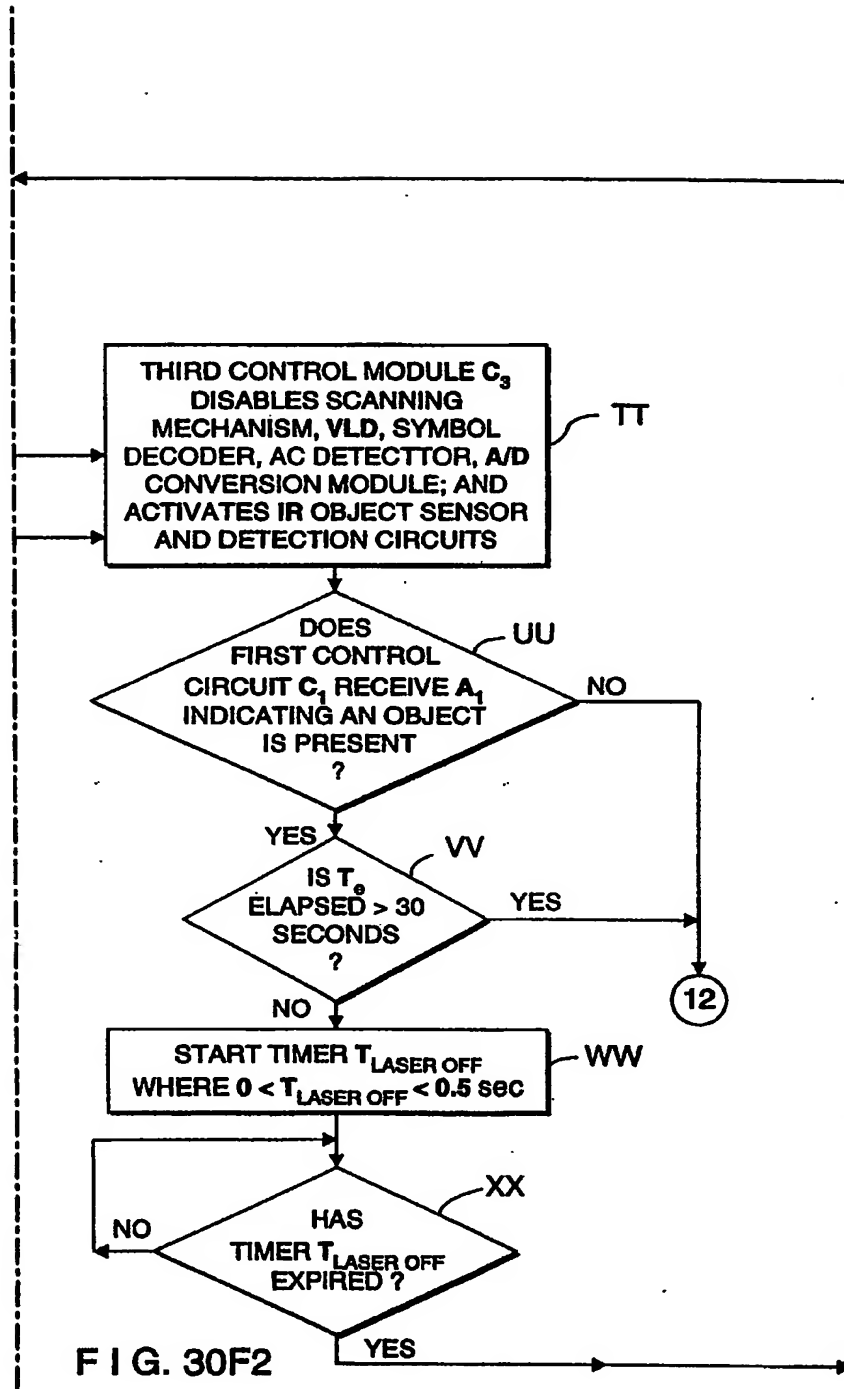


FIG. 30E





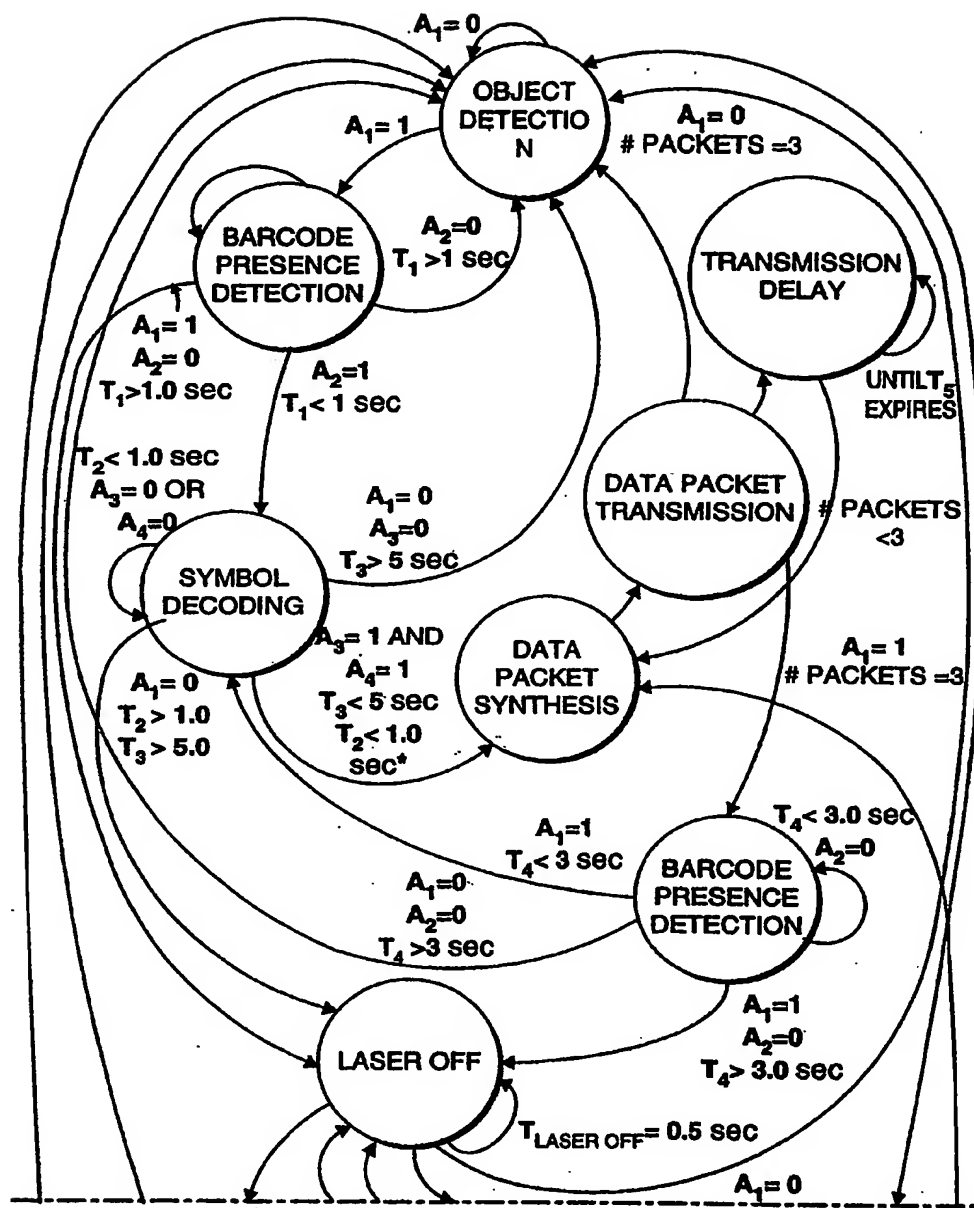


FIG. 31A

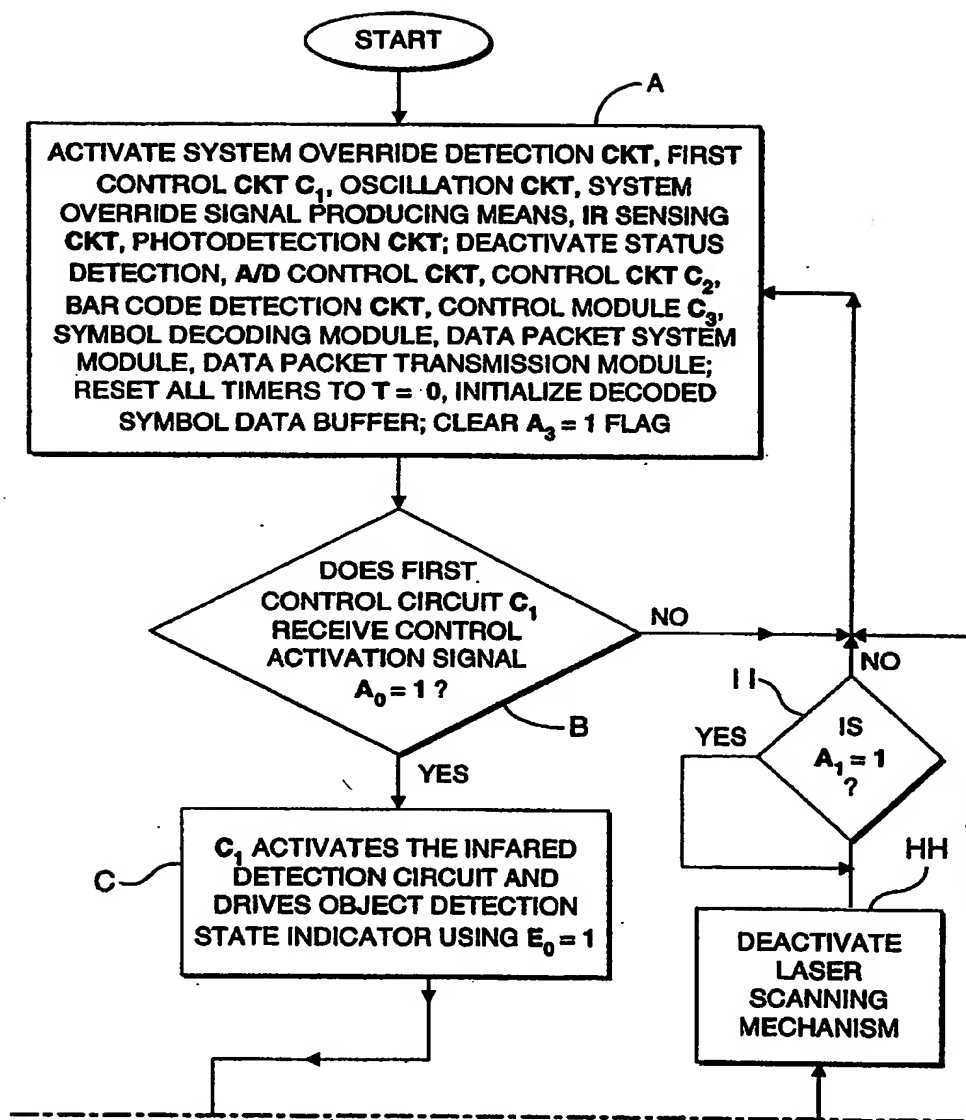
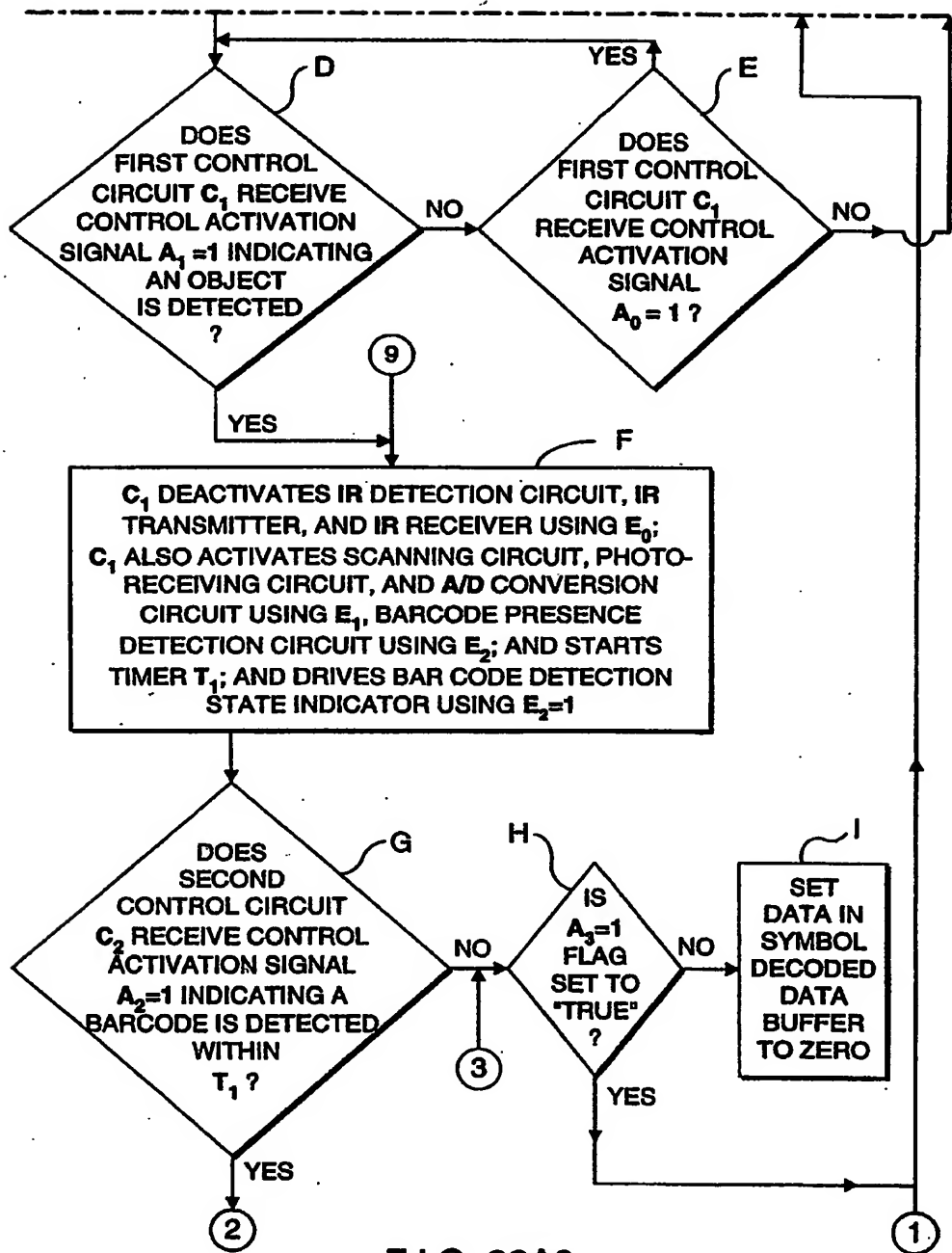


FIG. 32A1



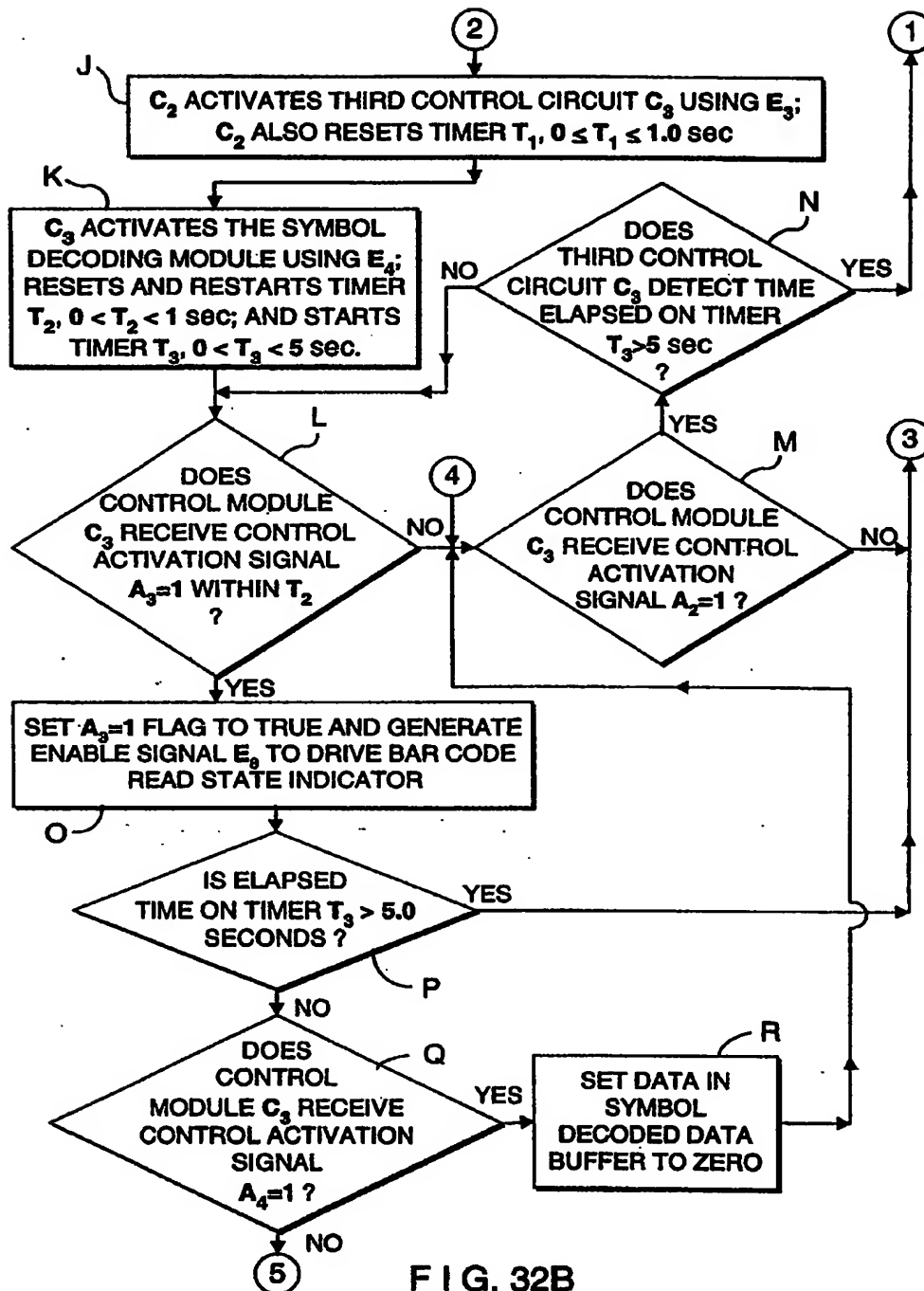


FIG. 32B

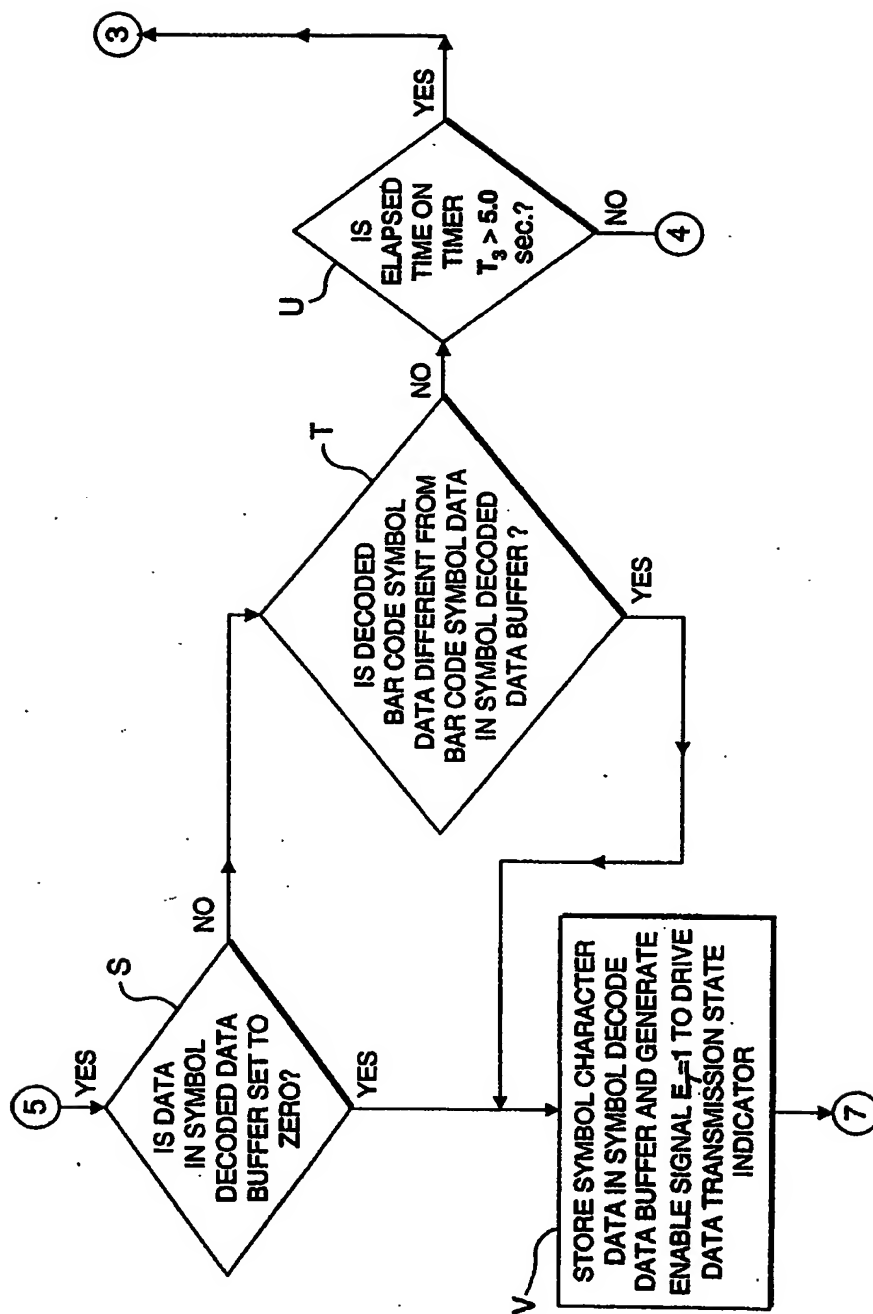


FIG. 32C

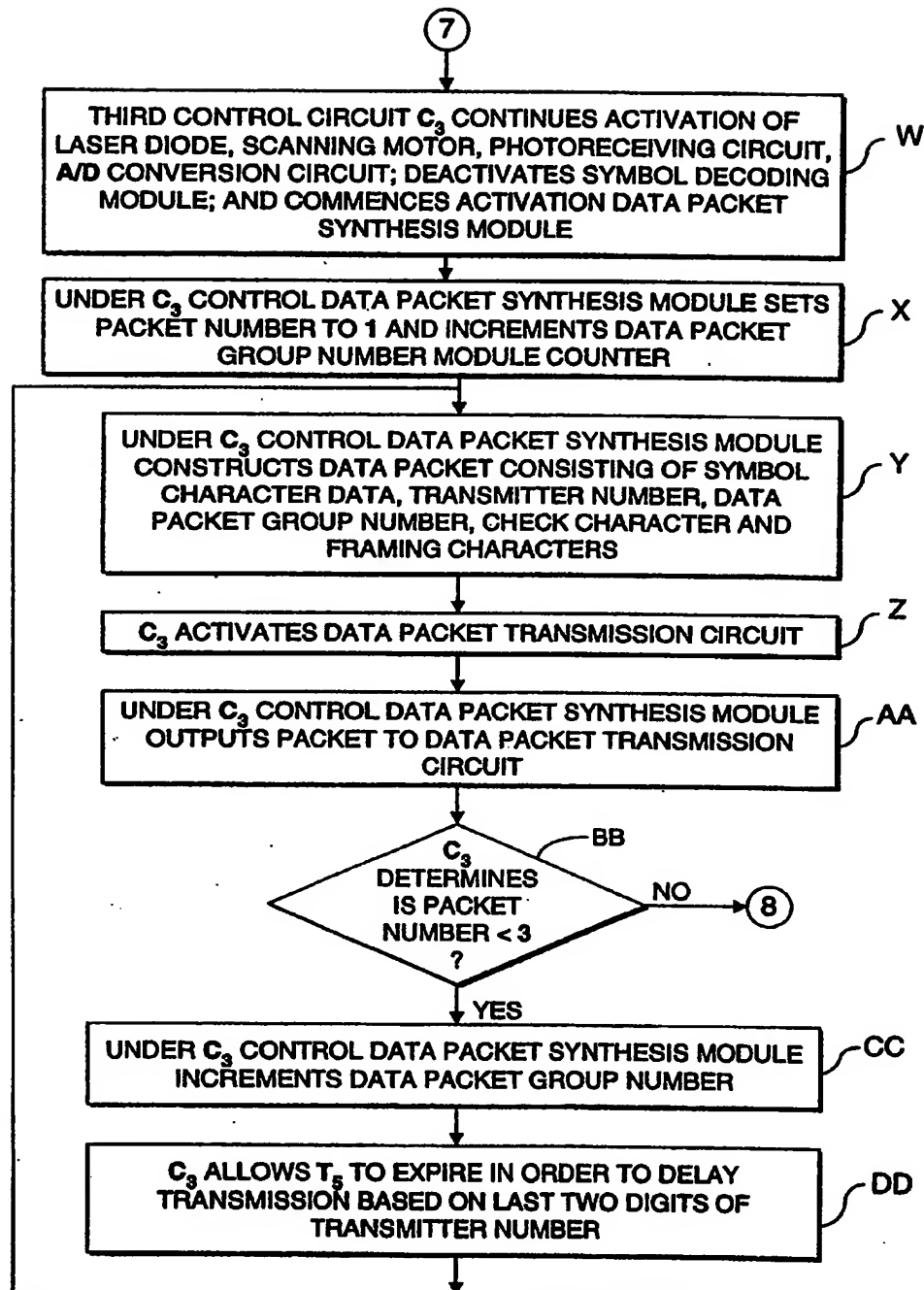


FIG. 32D

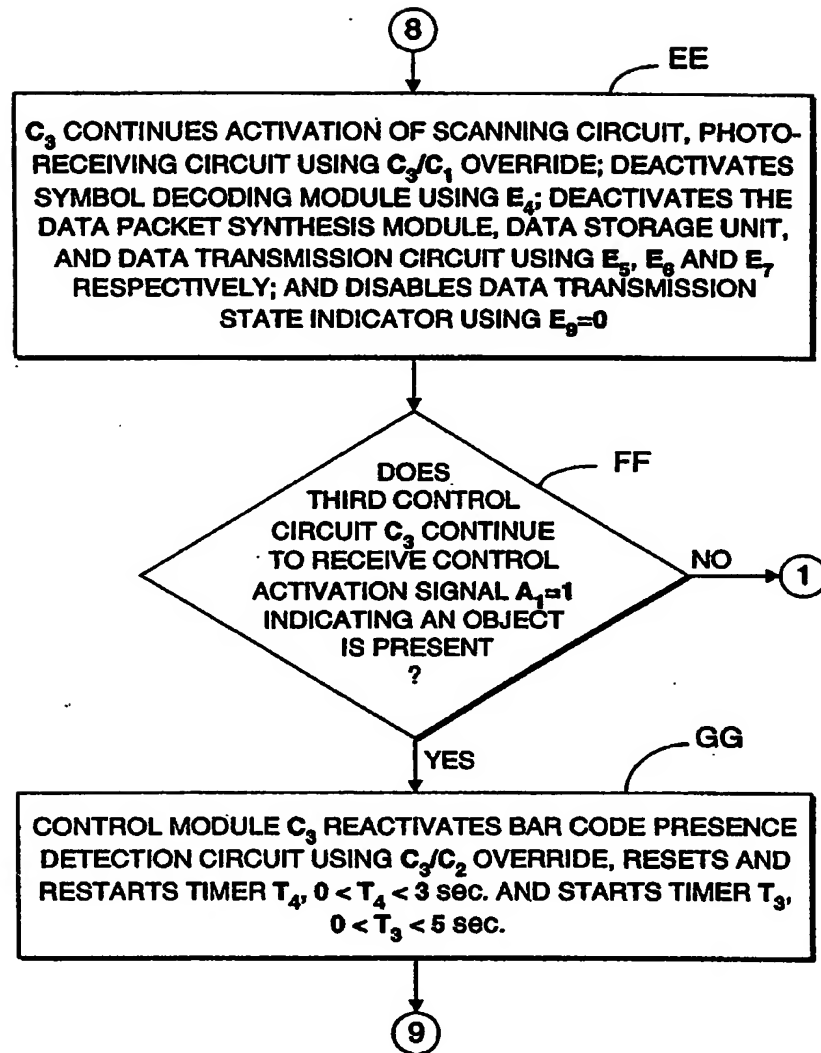


FIG. 32E

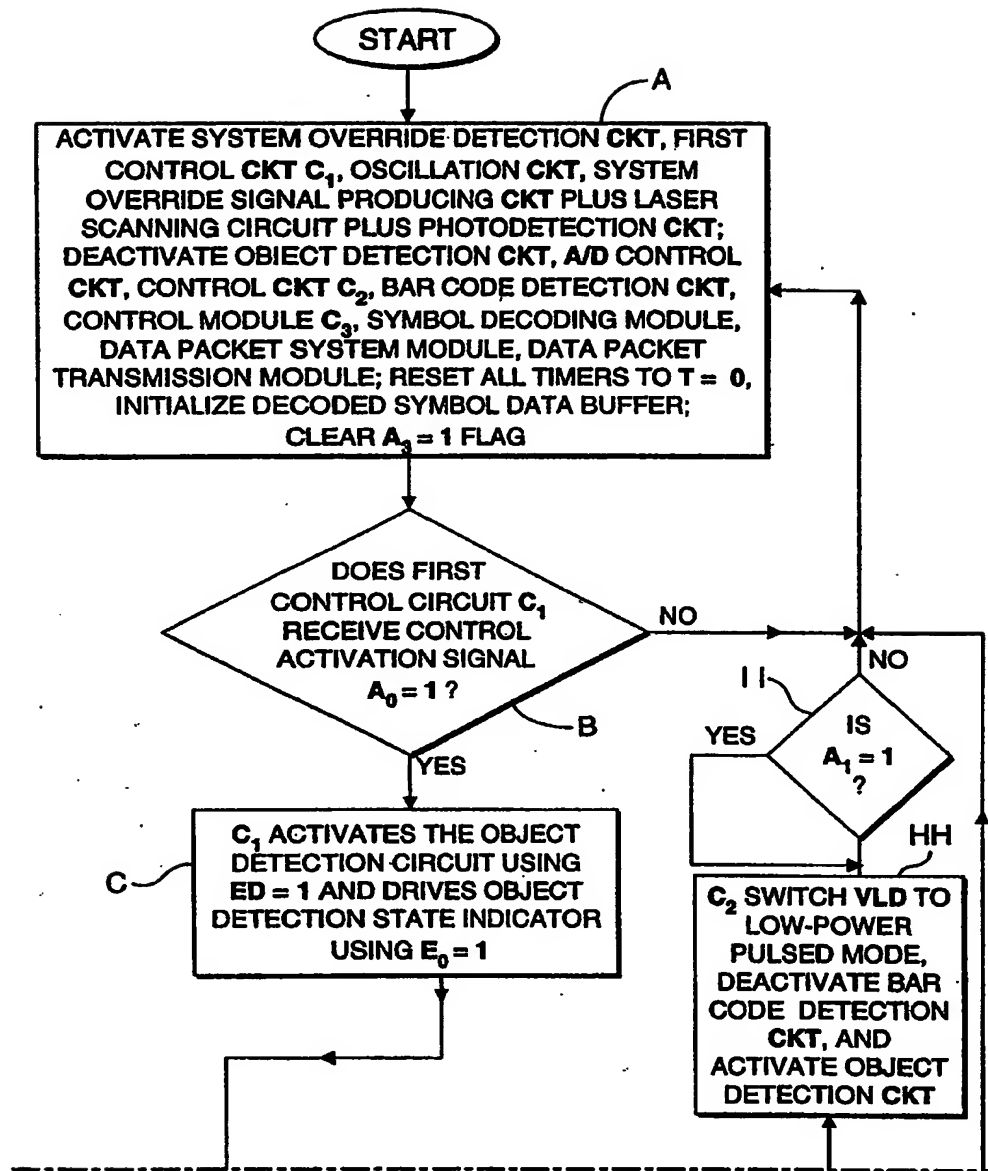
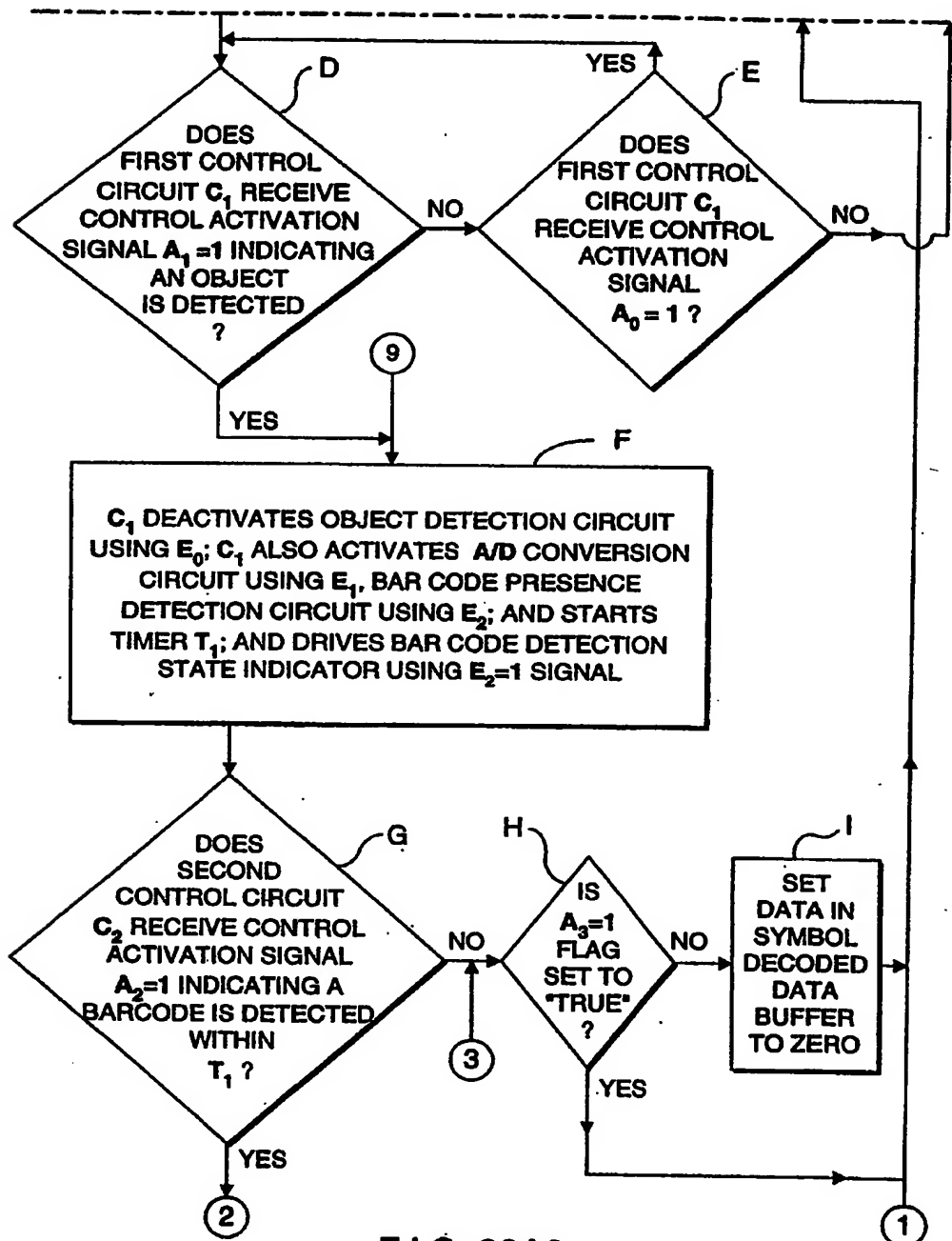


FIG. 33A1



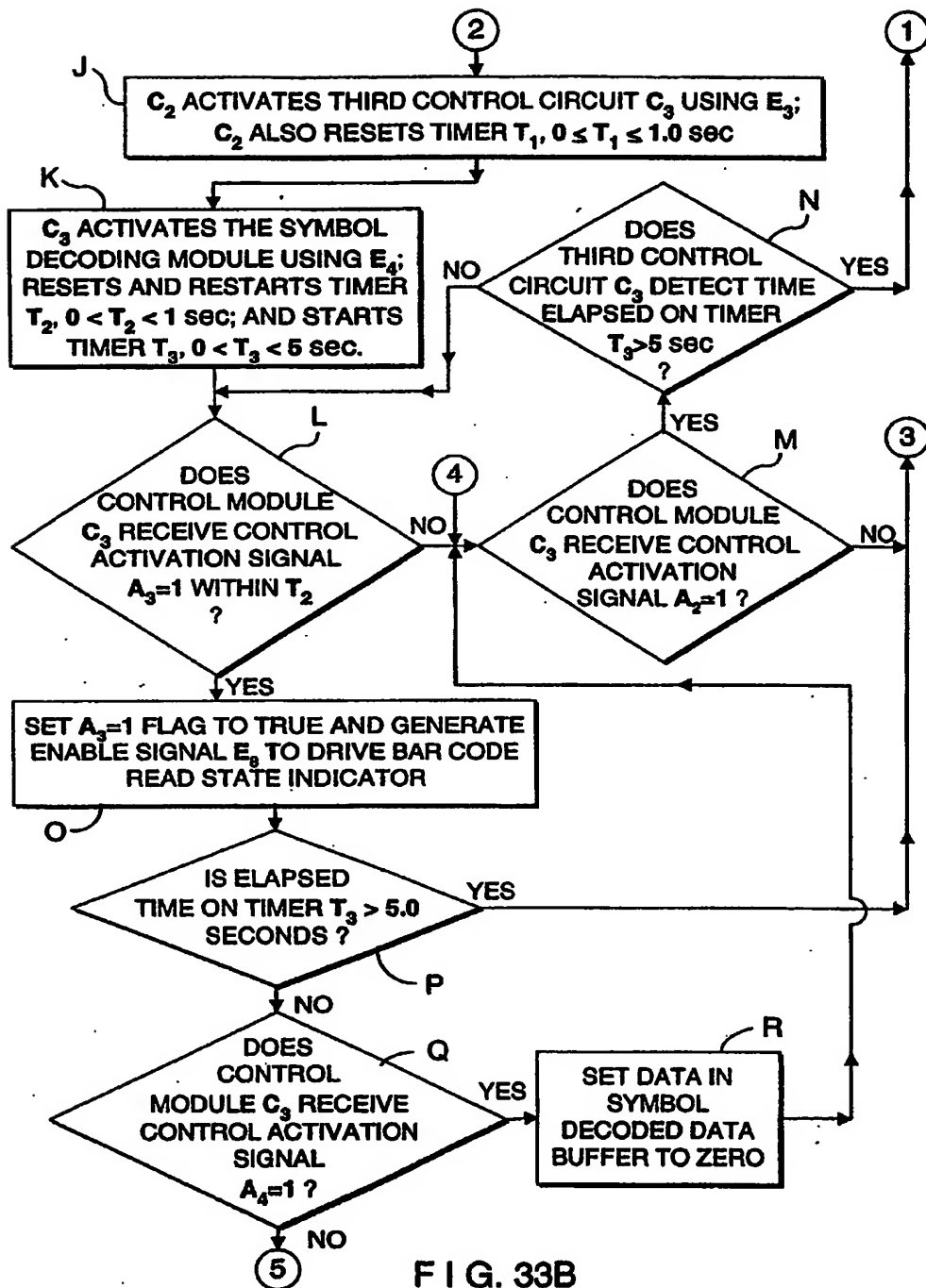


FIG. 33B

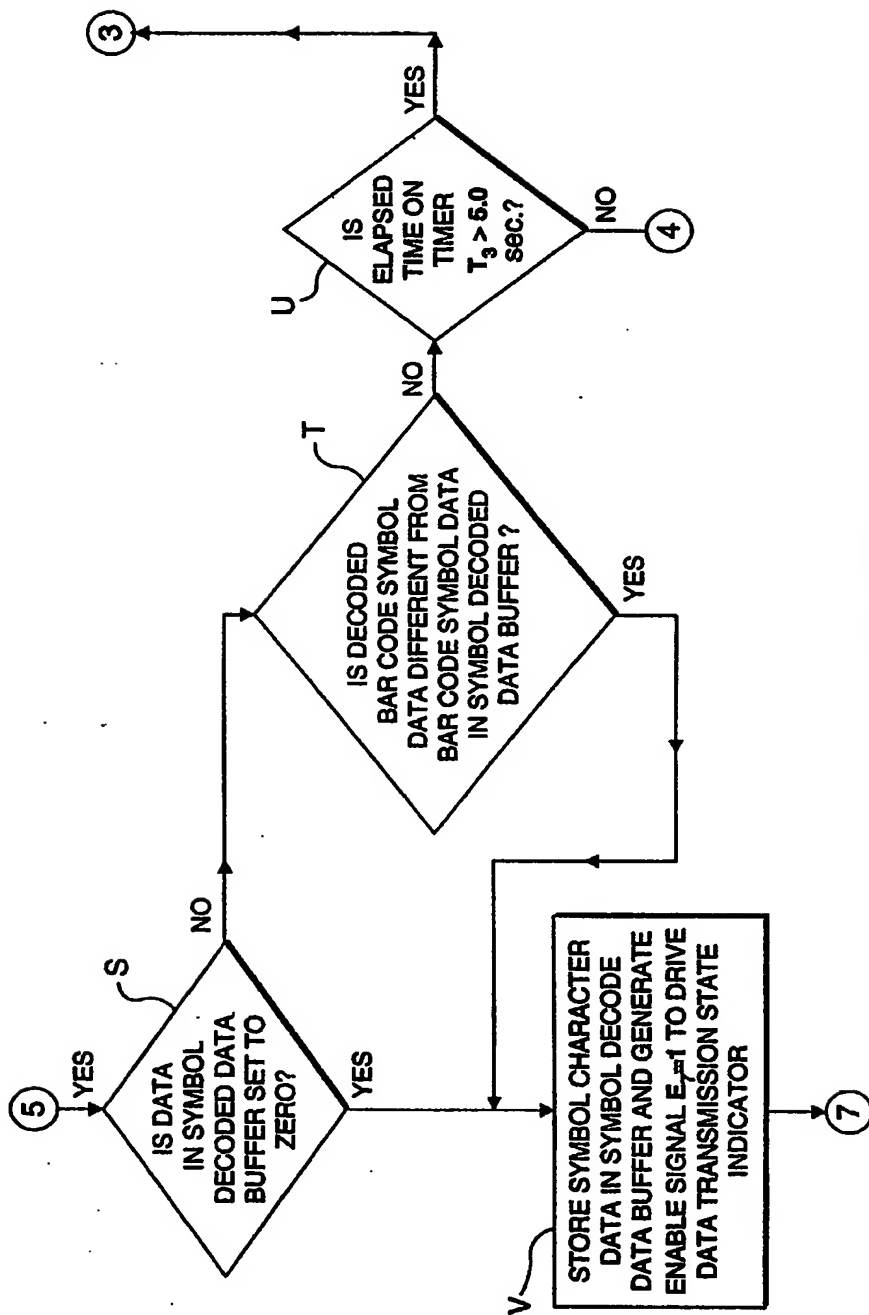


FIG. 33C

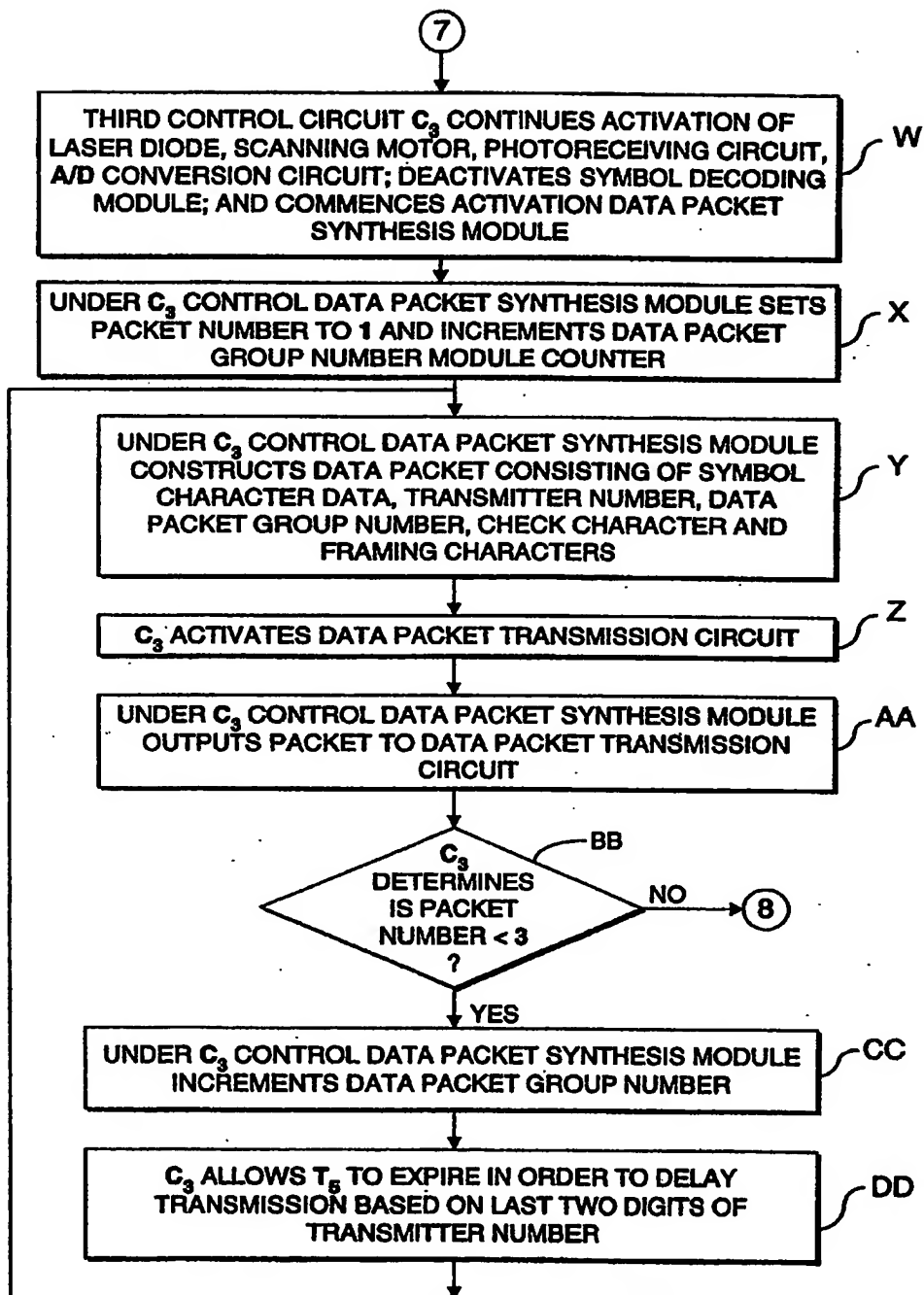


FIG. 33D

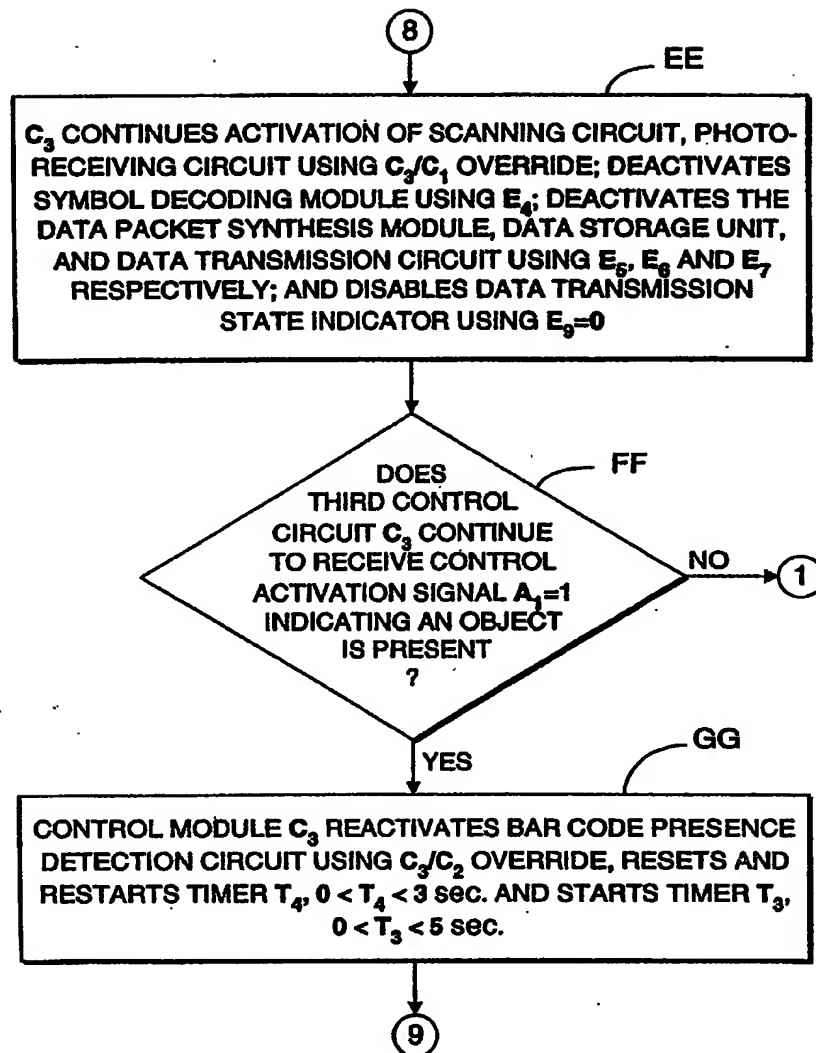


FIG. 33E

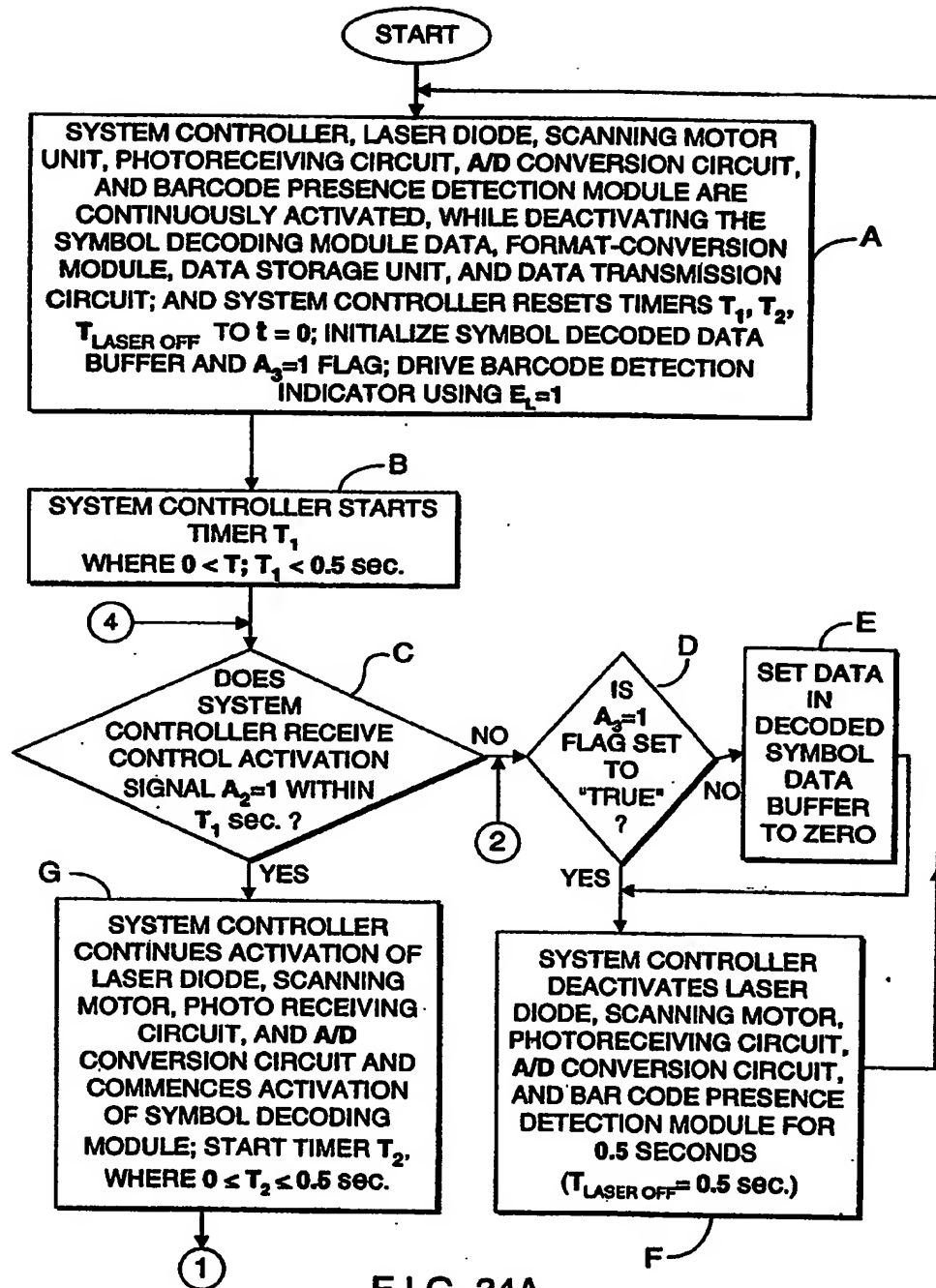


FIG. 34A

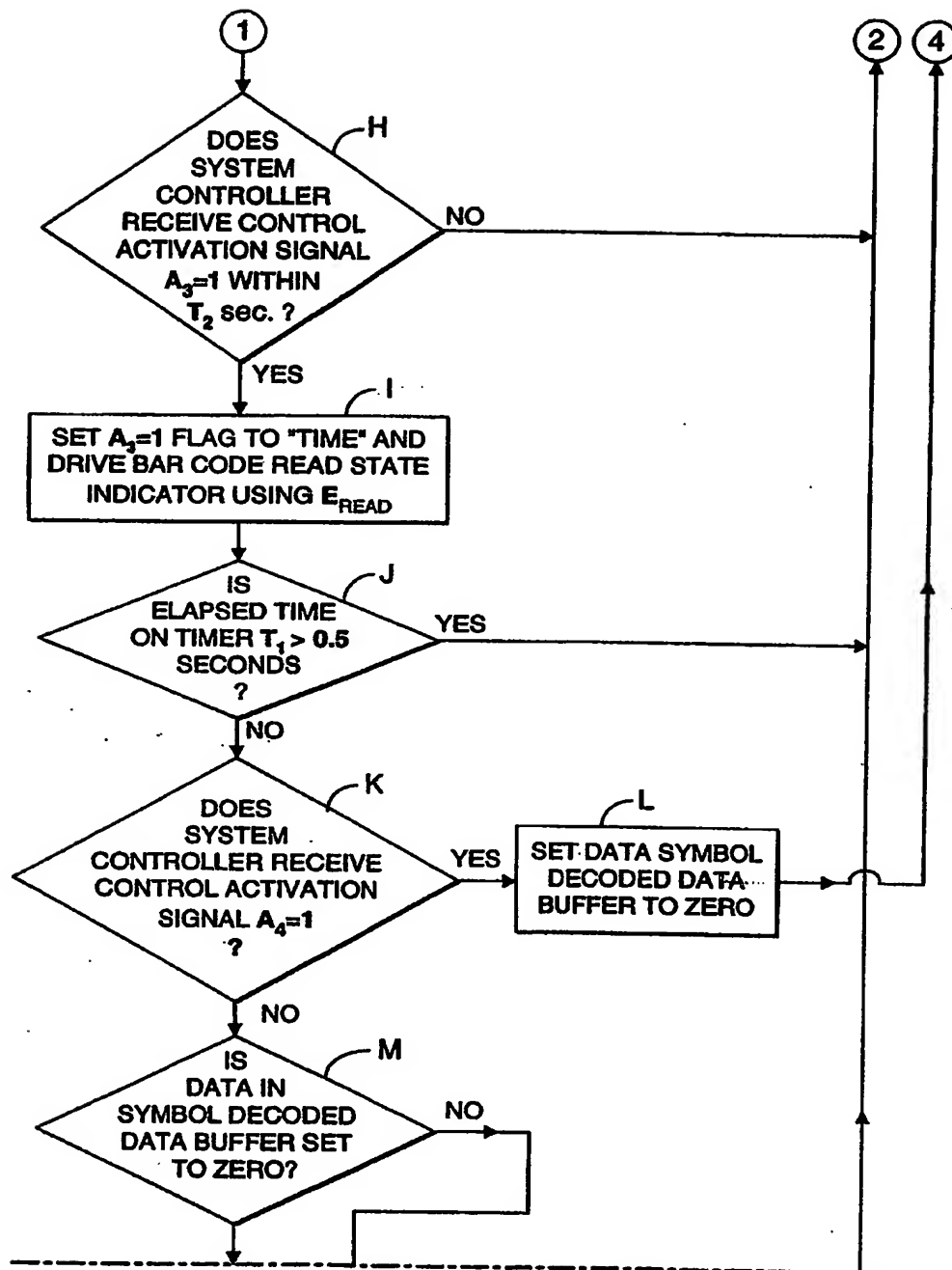


FIG. 34B1

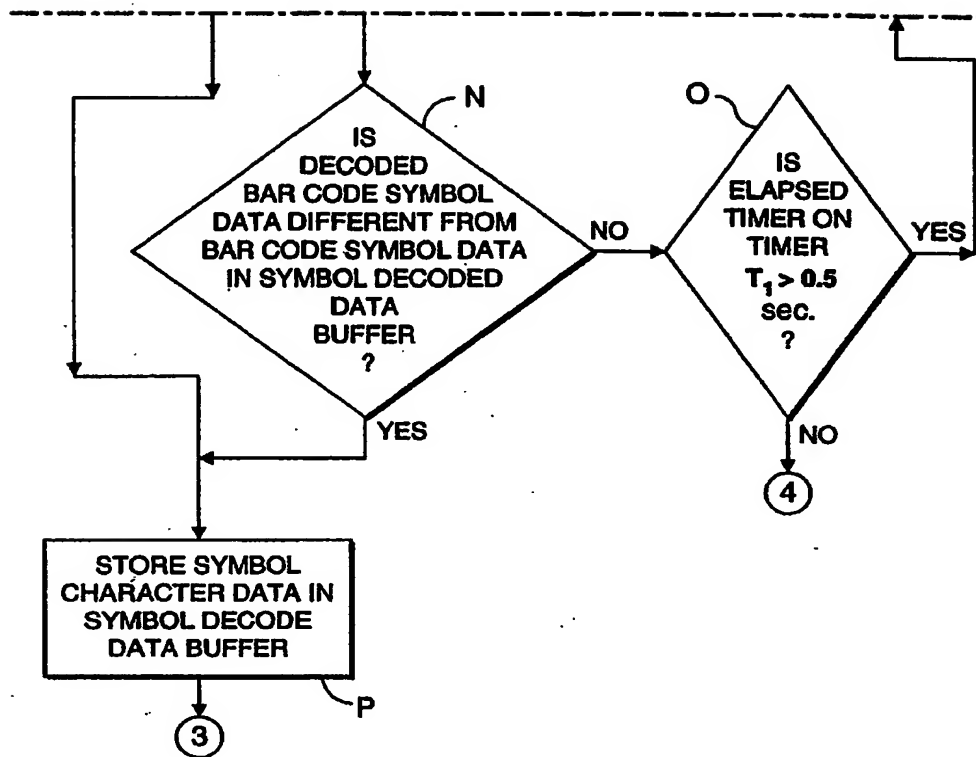


FIG. 34B2

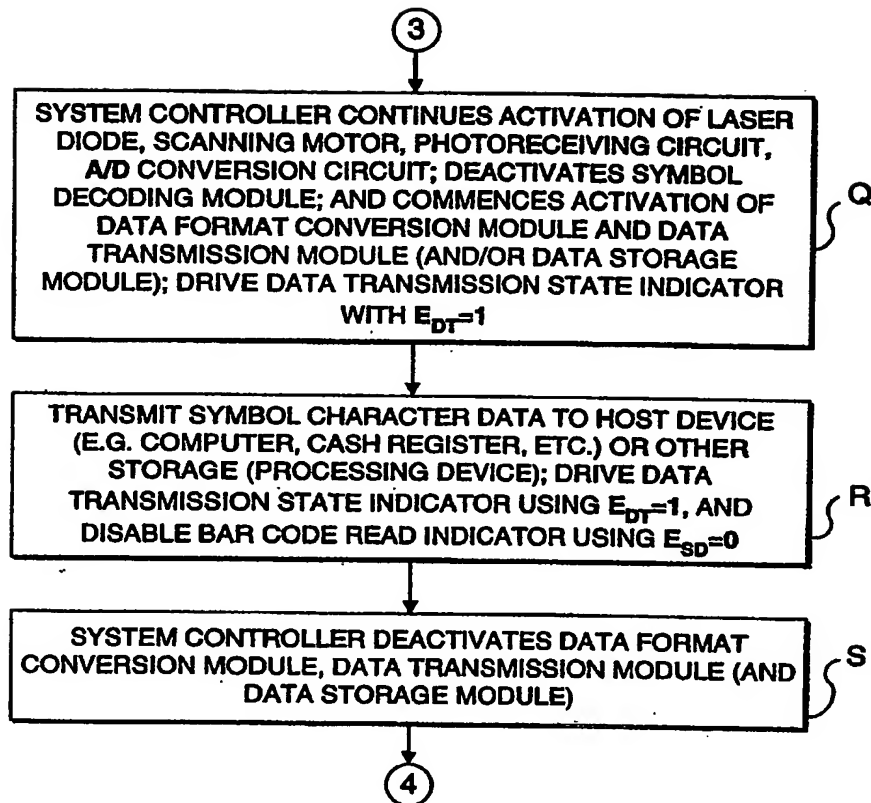


FIG. 34C

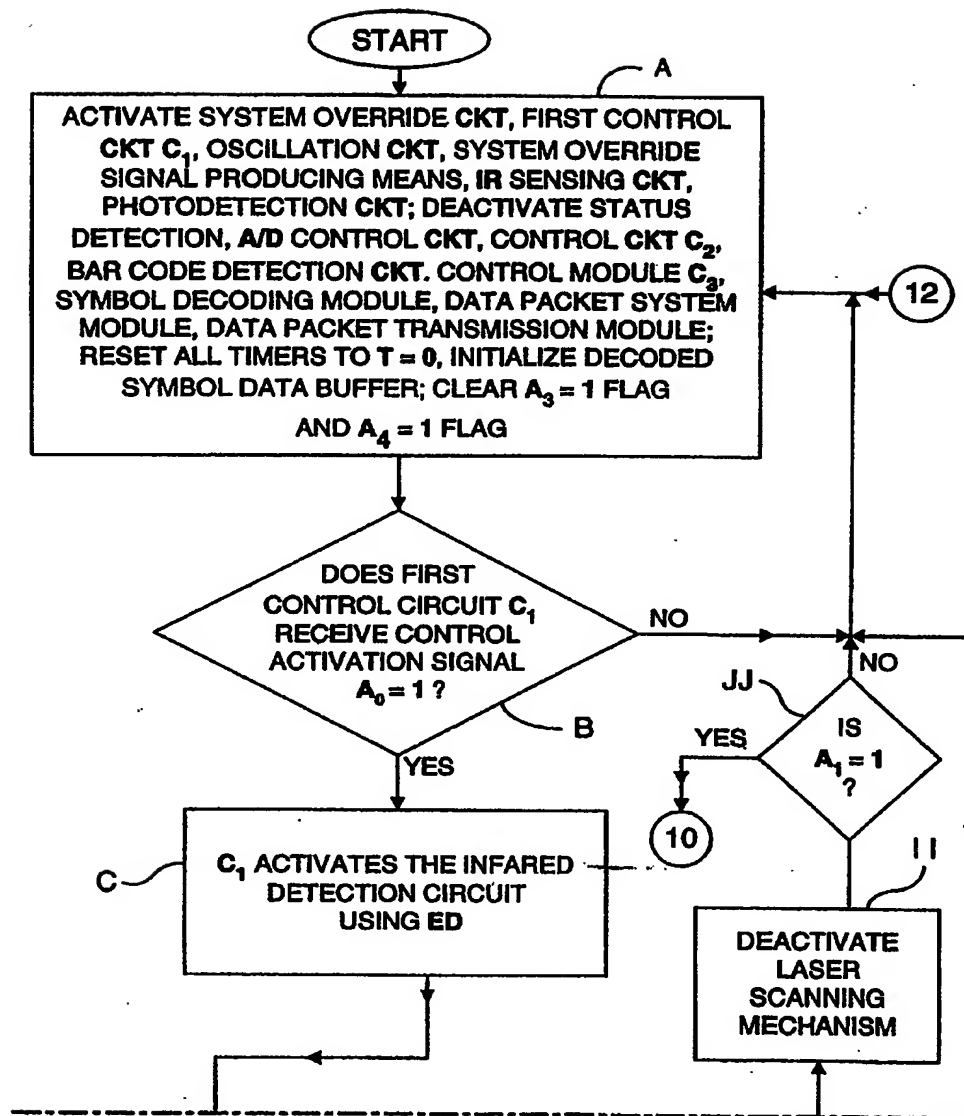


FIG. 35A1

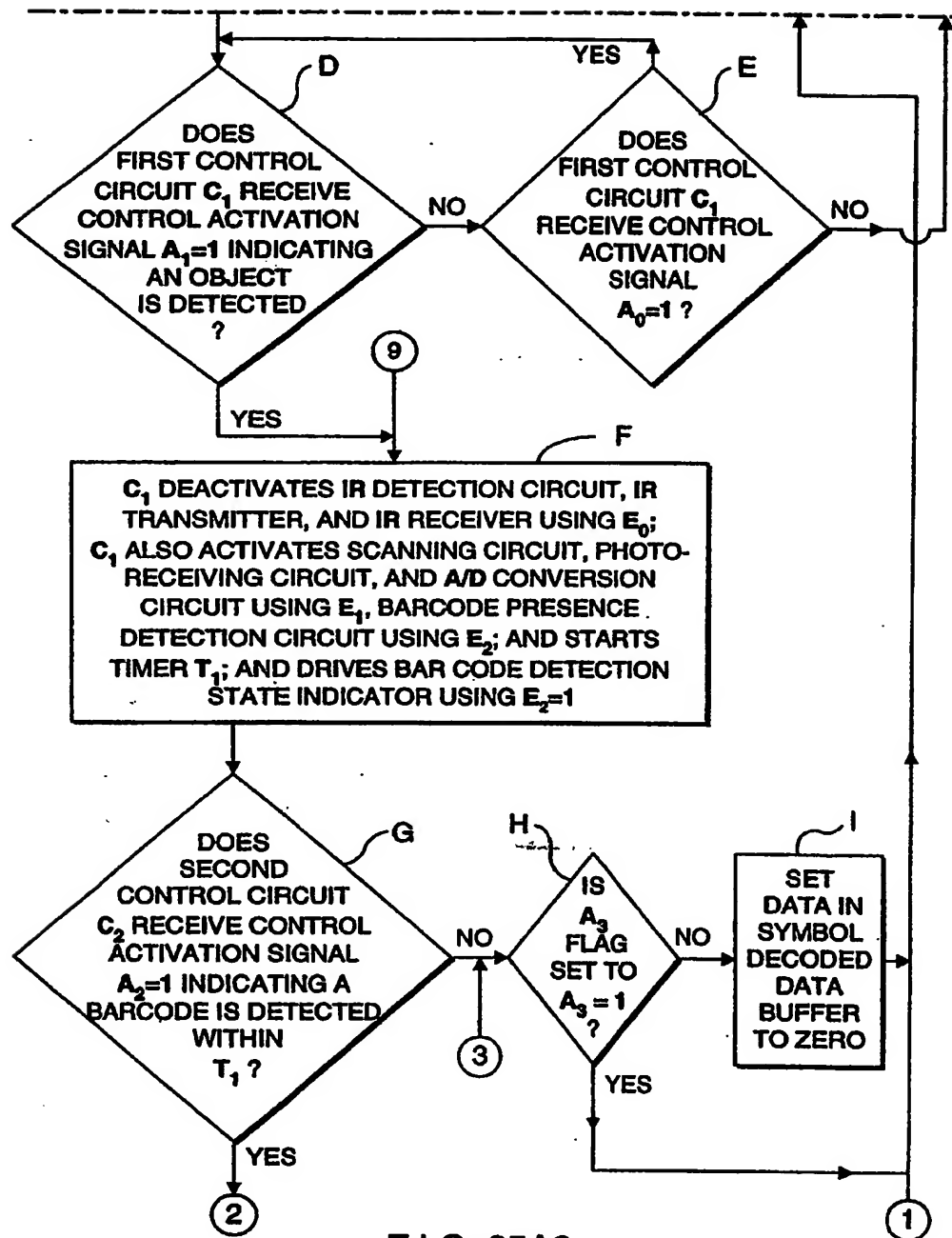


FIG. 35A2

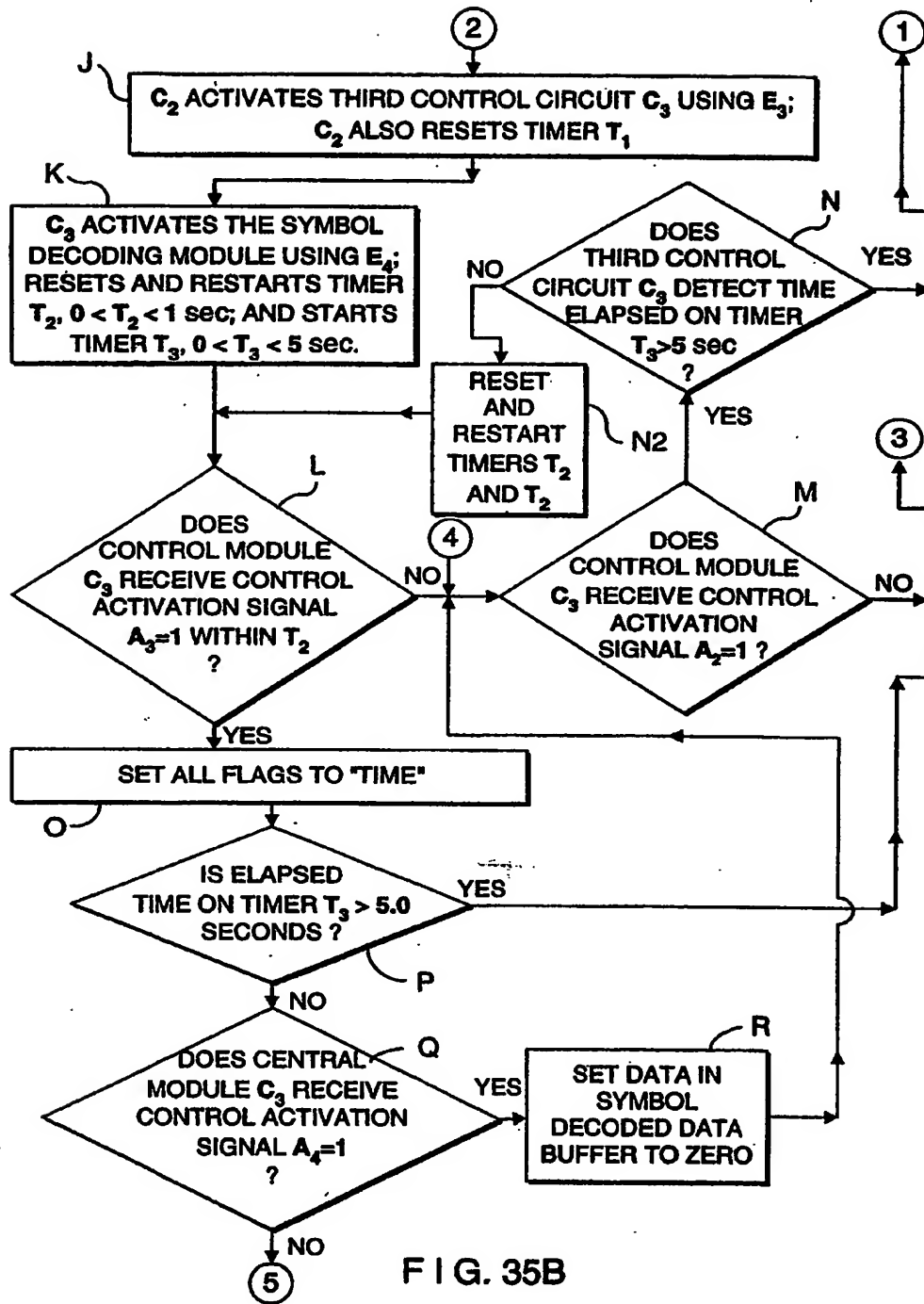


FIG. 35B

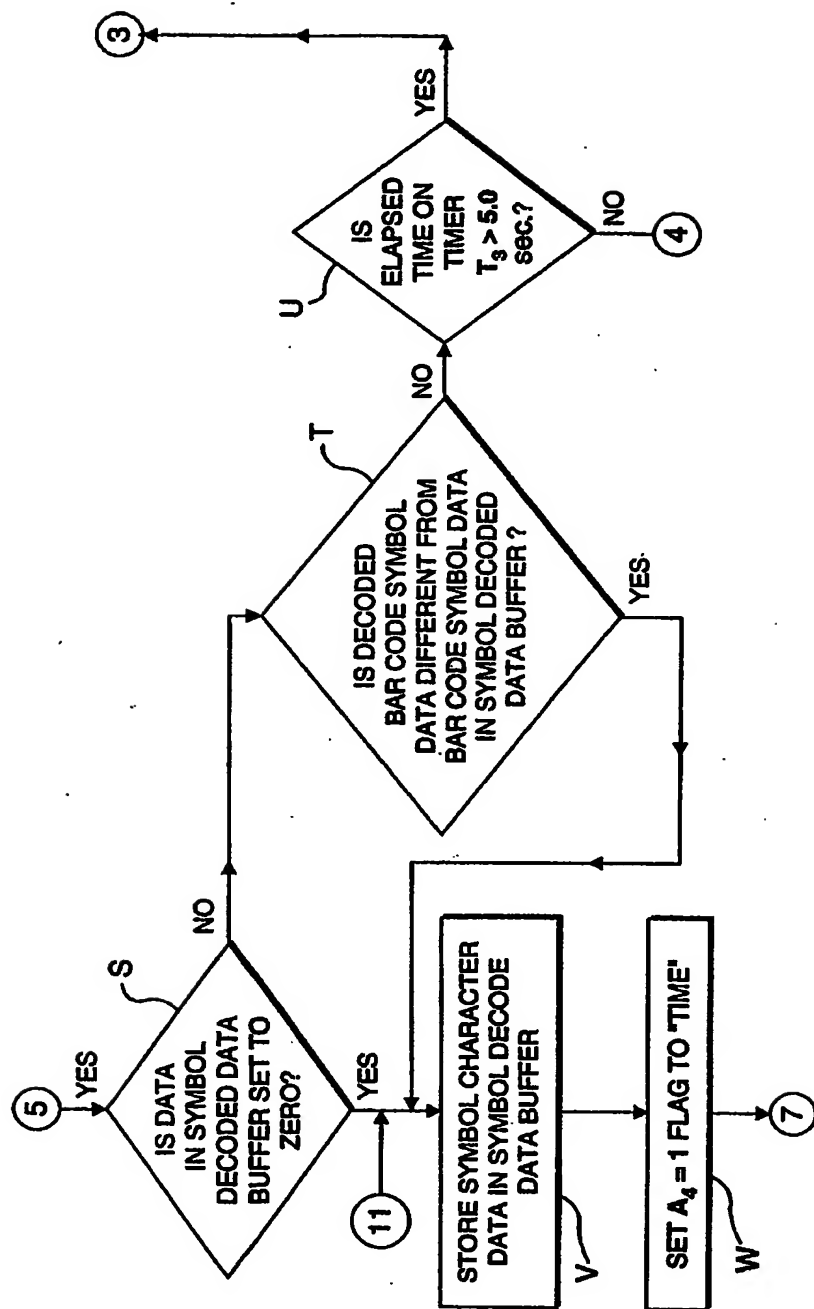


FIG. 35C

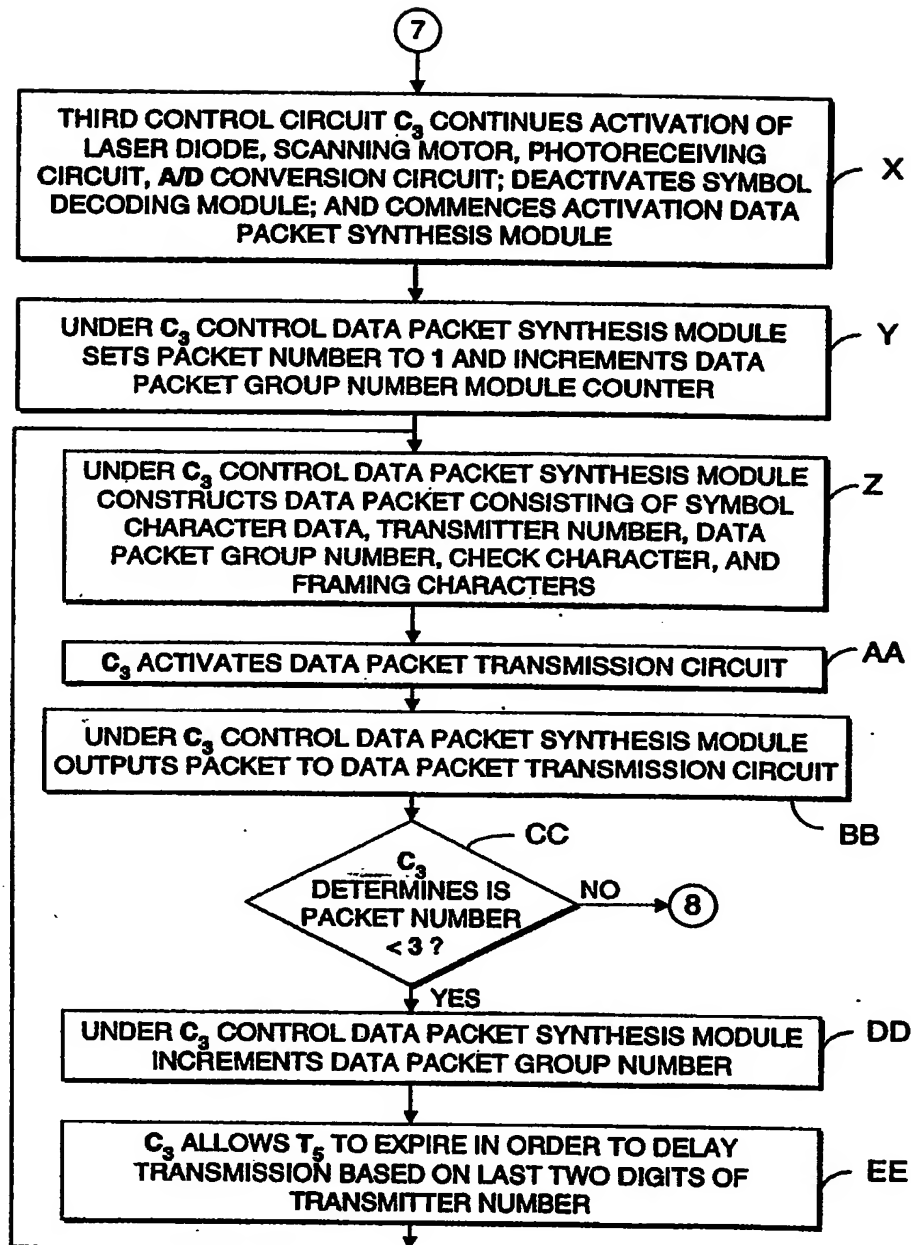


FIG. 35D

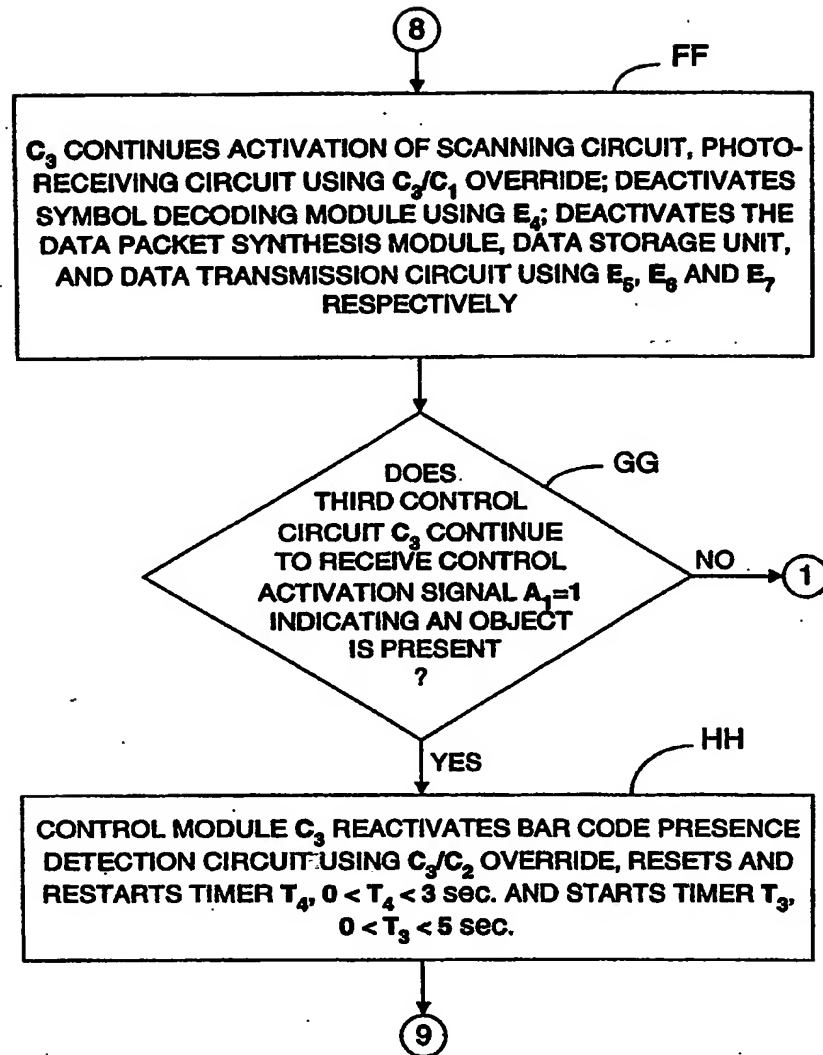


FIG. 35E

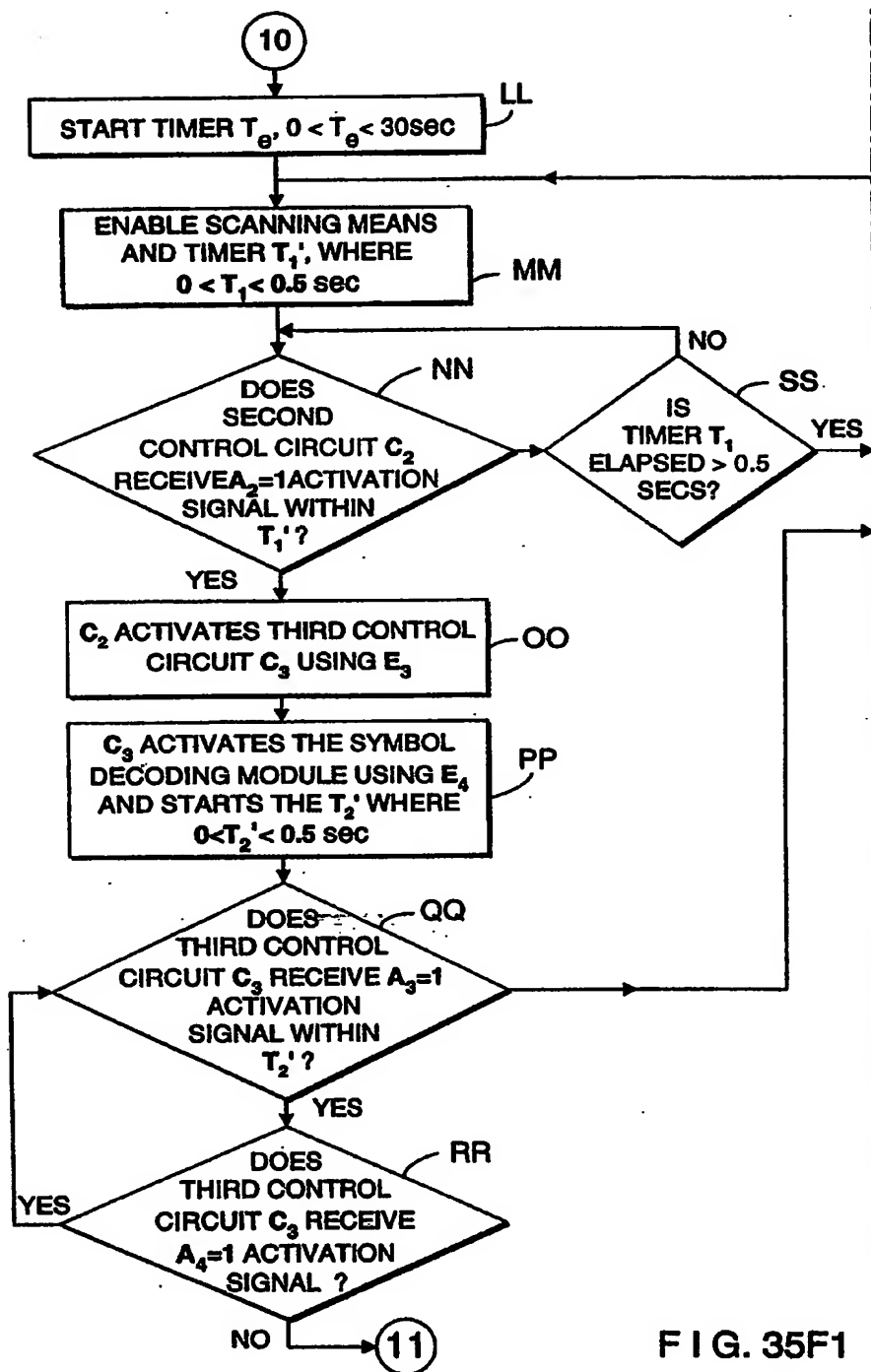


FIG. 35F1

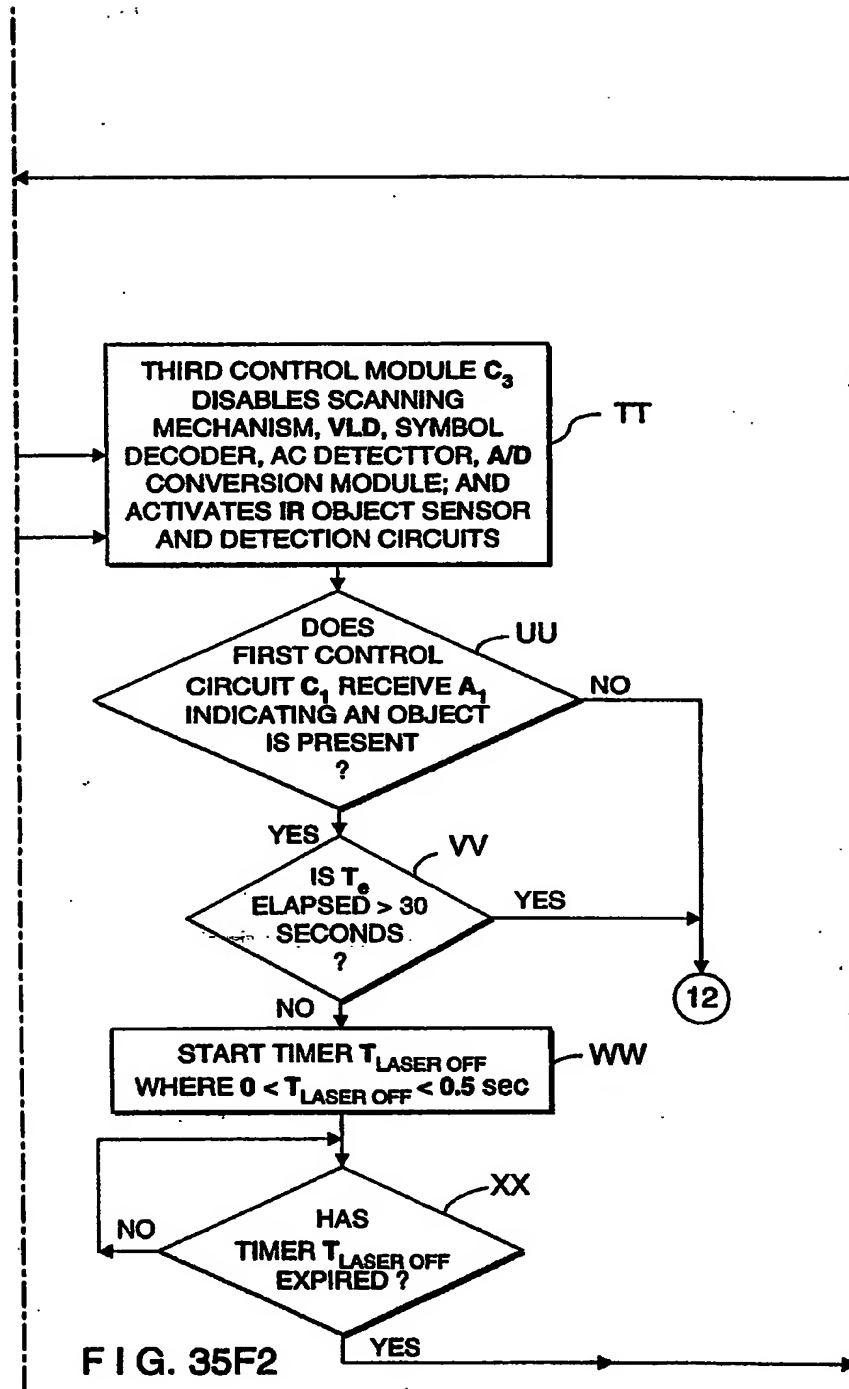
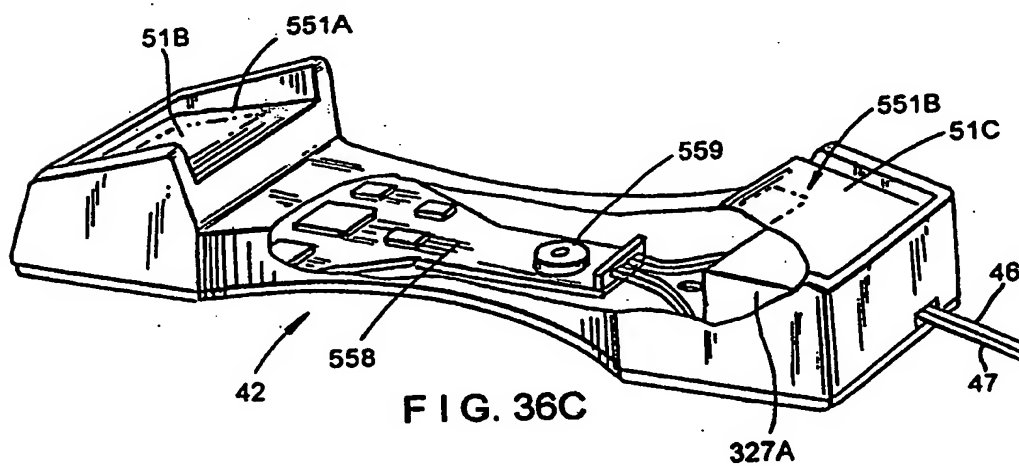
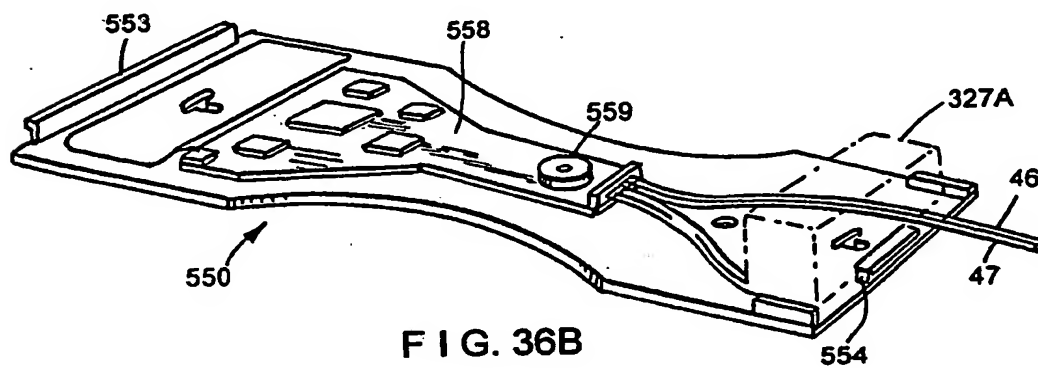
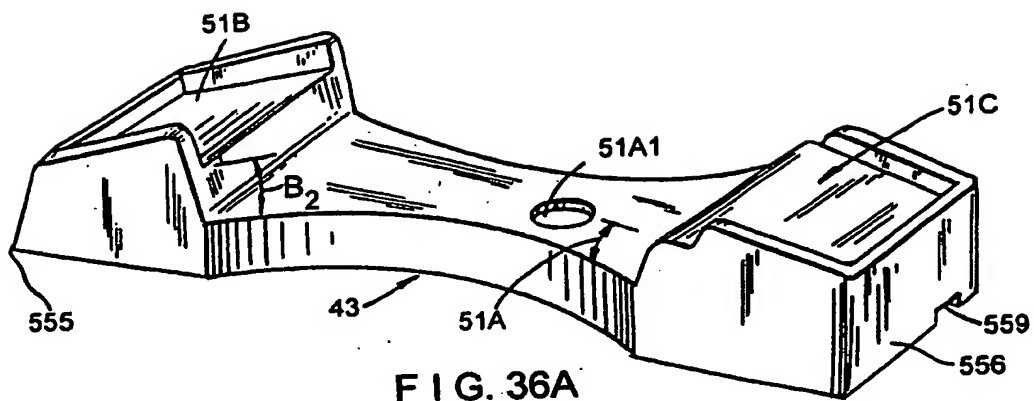


FIG. 35F2



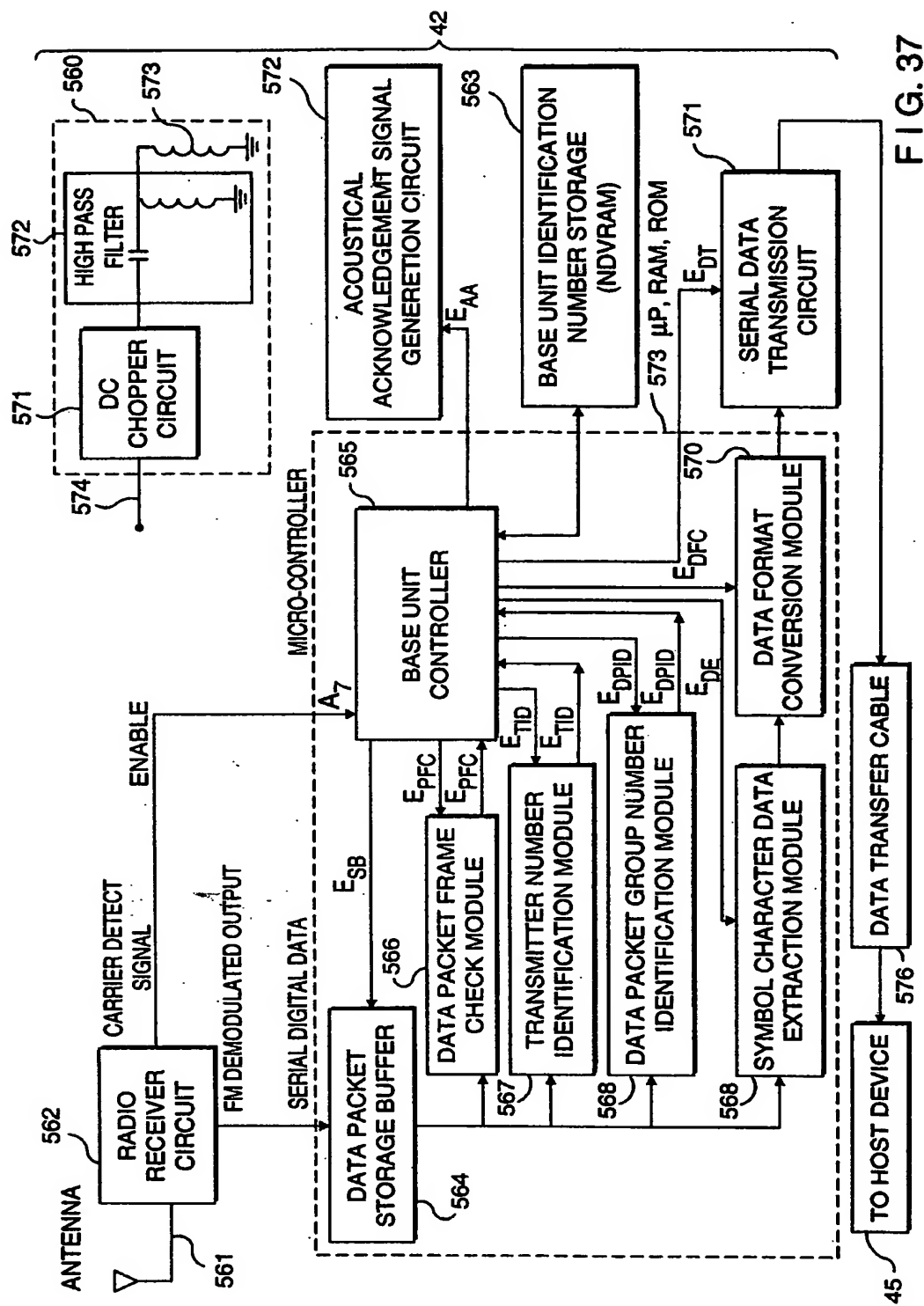


FIG. 37

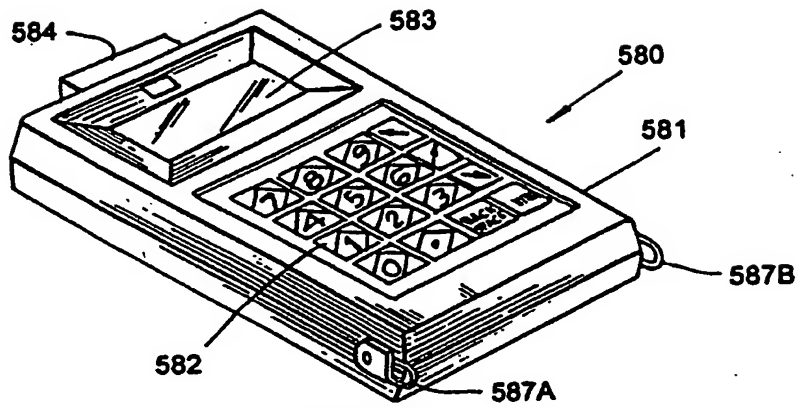


FIG. 38A



FIG. 38B

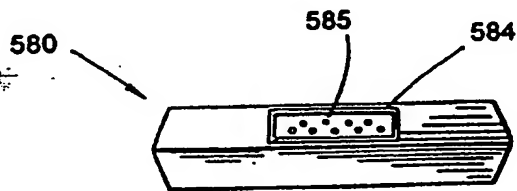


FIG. 38C

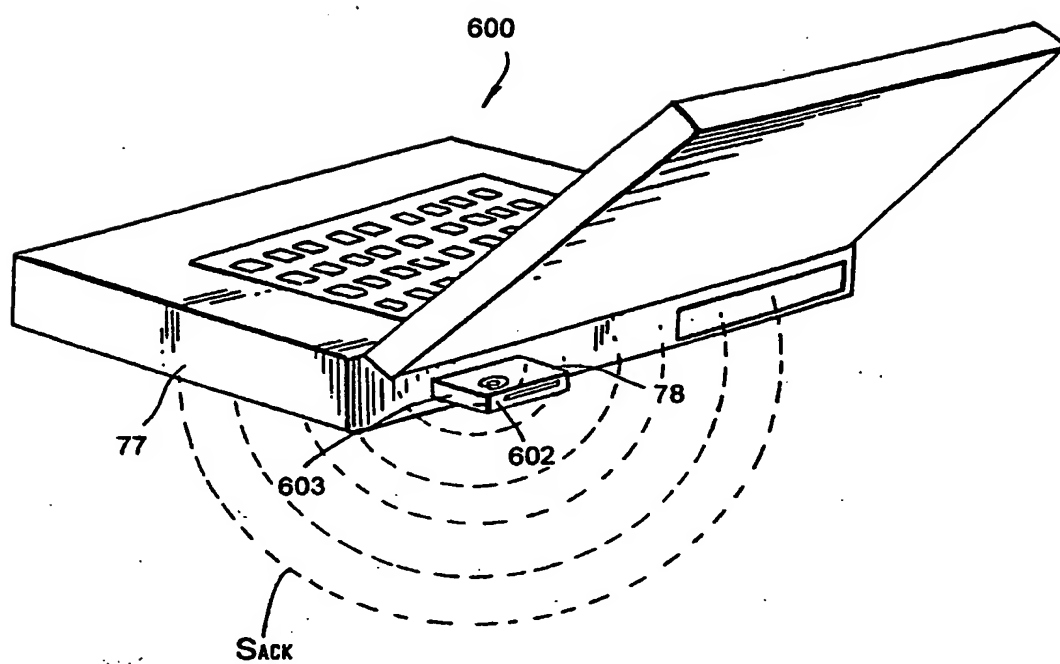
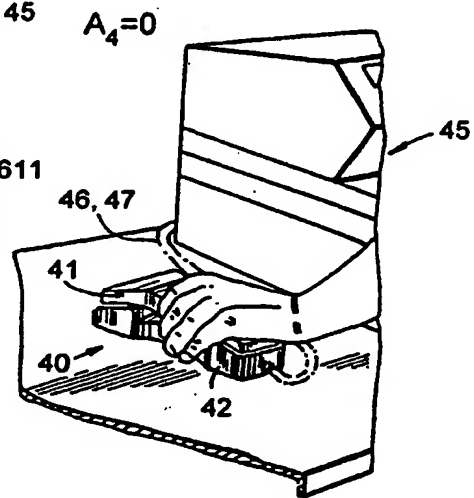
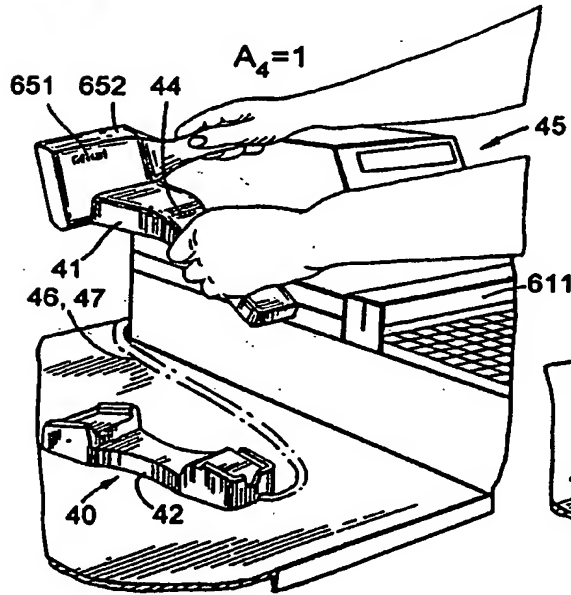
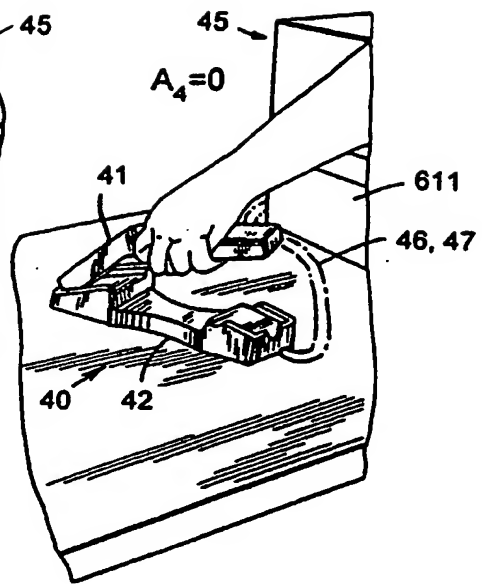
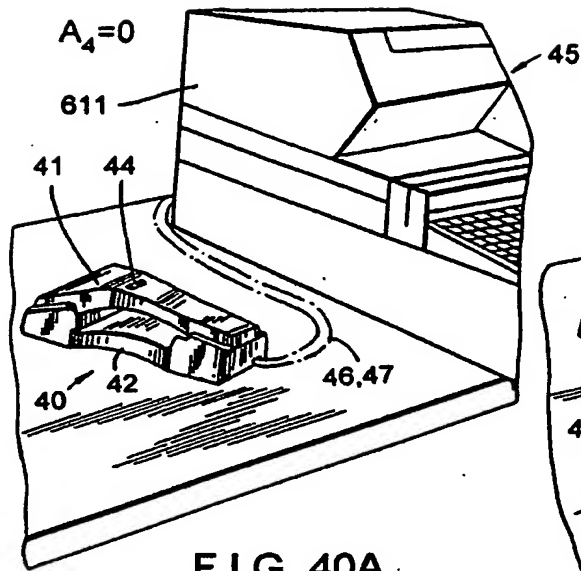


FIG. 39



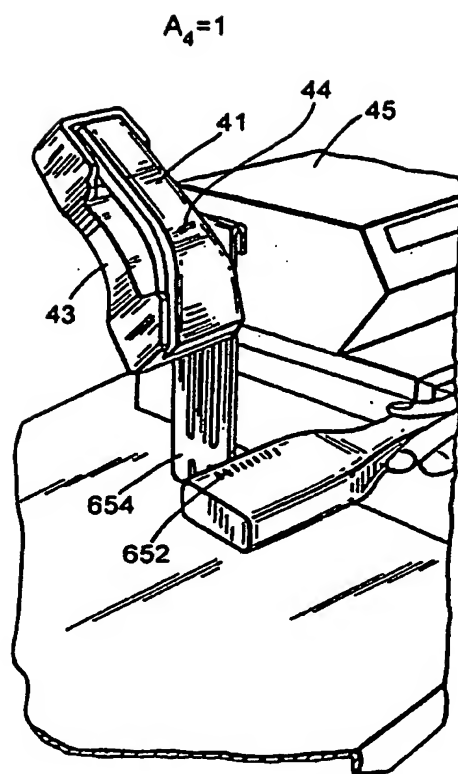


FIG. 41A

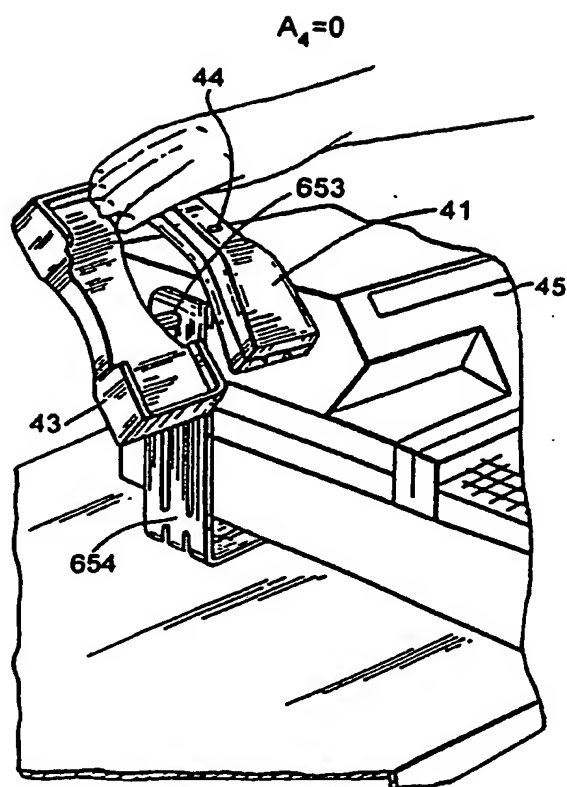


FIG. 41B

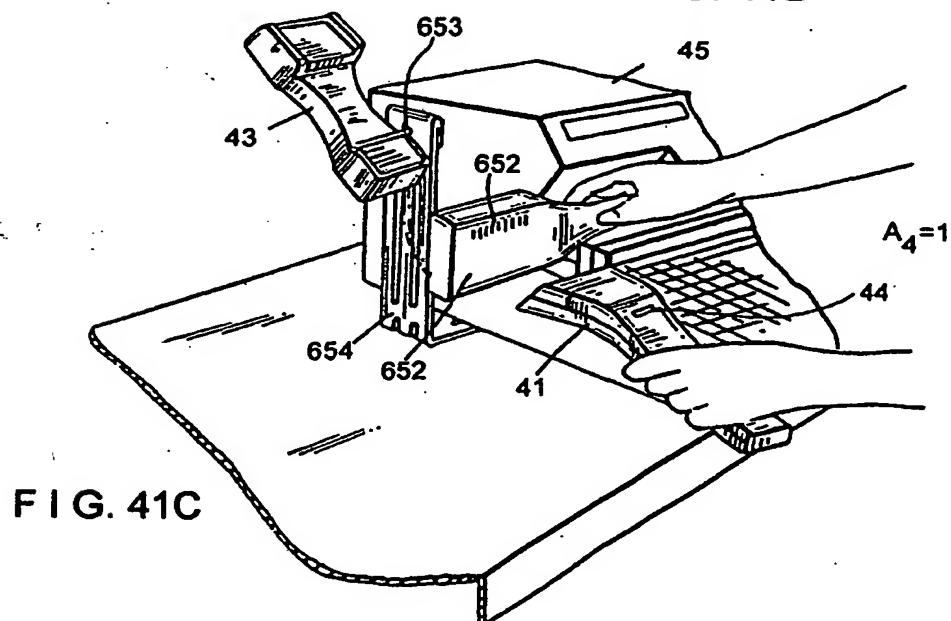
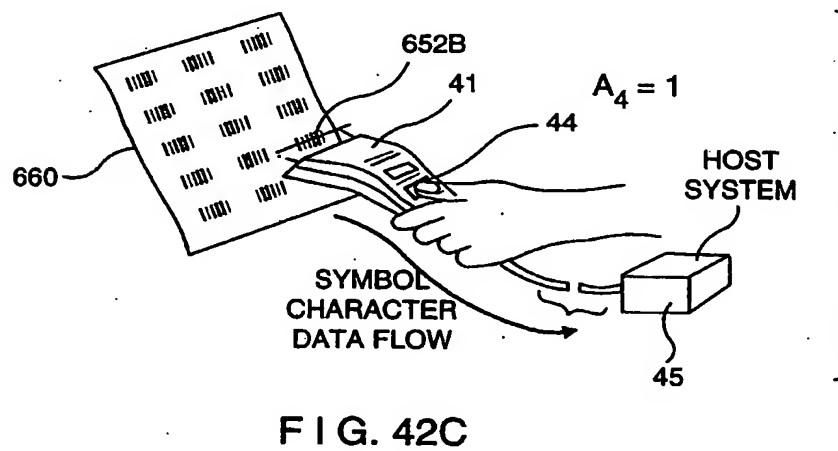
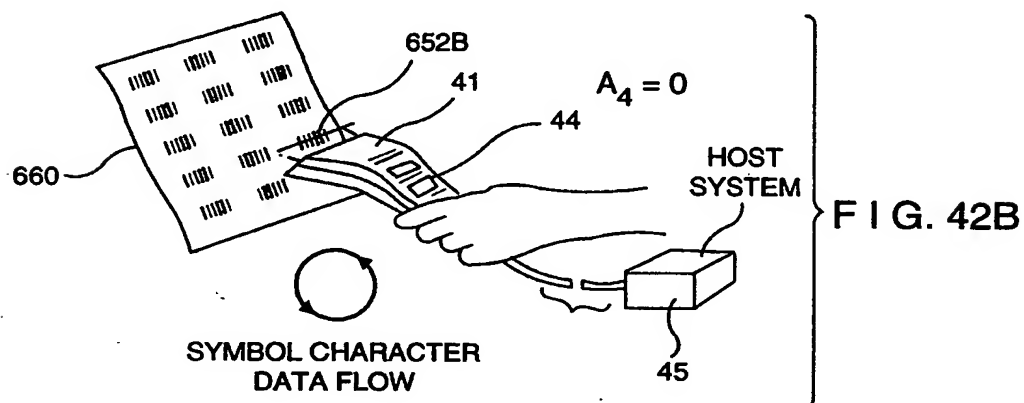
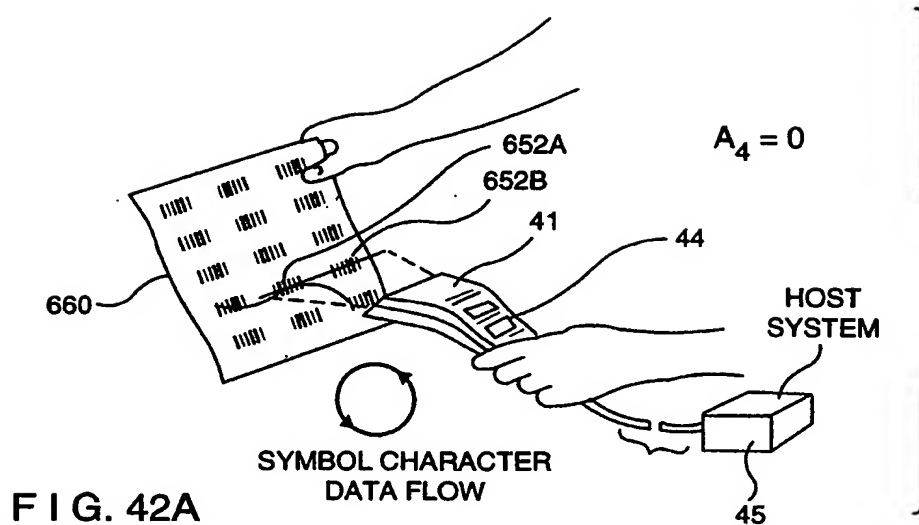


FIG. 41C



Automatic Bar Code Reading System With
2-Way RF Communication Link

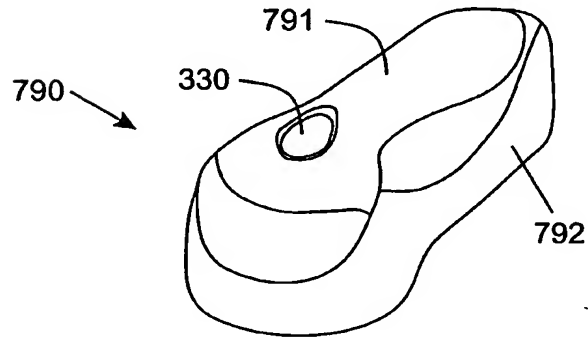


FIG. 43A

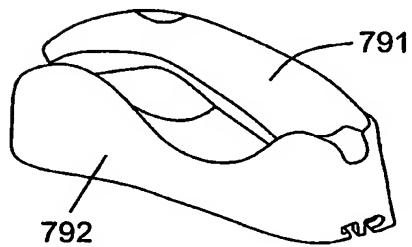


FIG. 43B

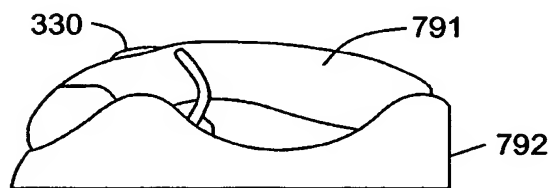


FIG. 43C

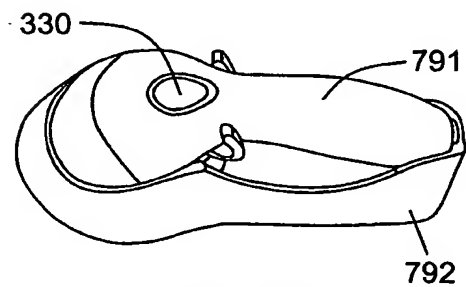


FIG. 43D

Protracted Configuration

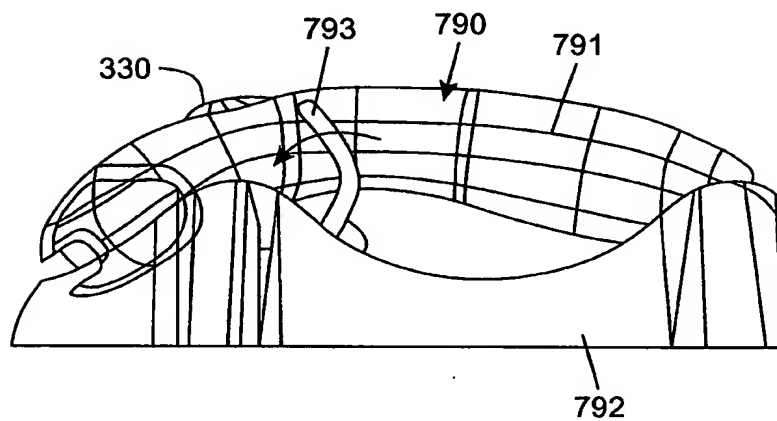


FIG. 43E

Protracted Configuration

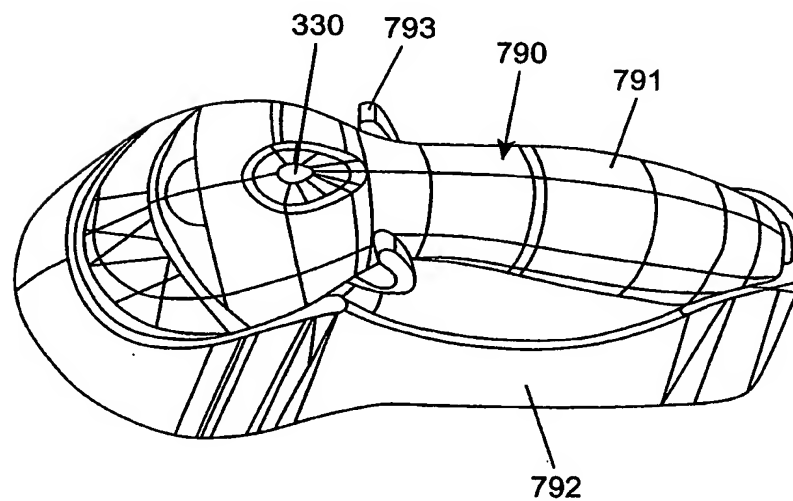


FIG. 43F

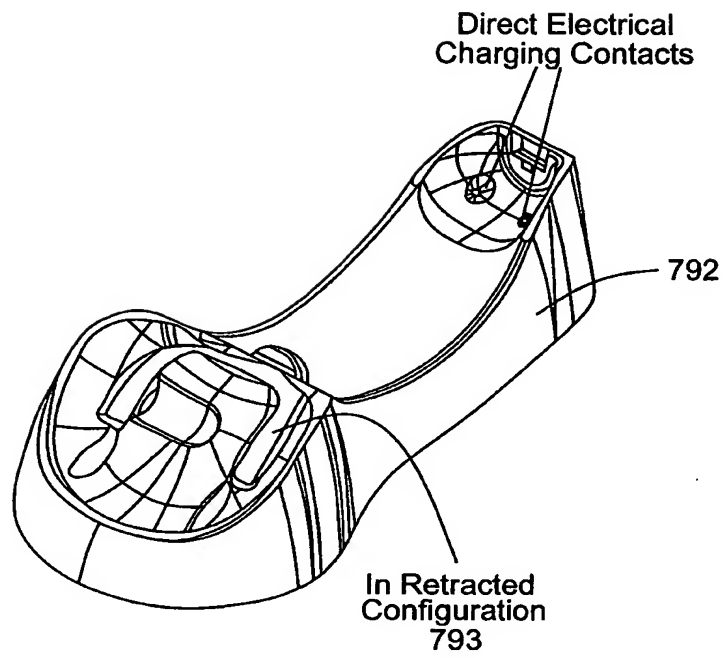


FIG. 43G

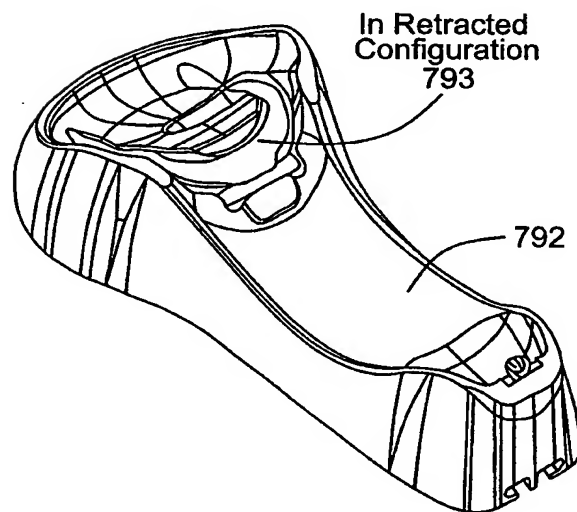


FIG. 43H

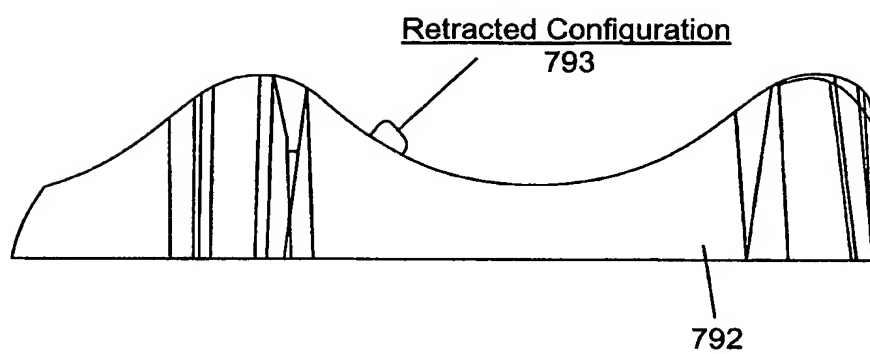


FIG. 43I

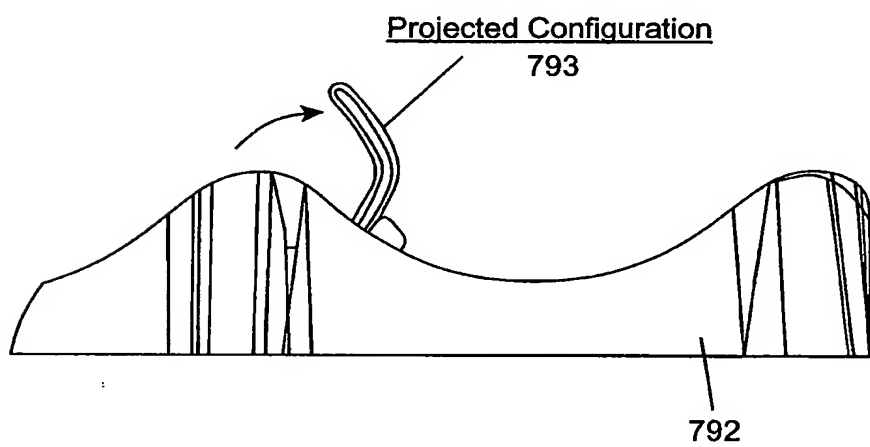


FIG. 43J

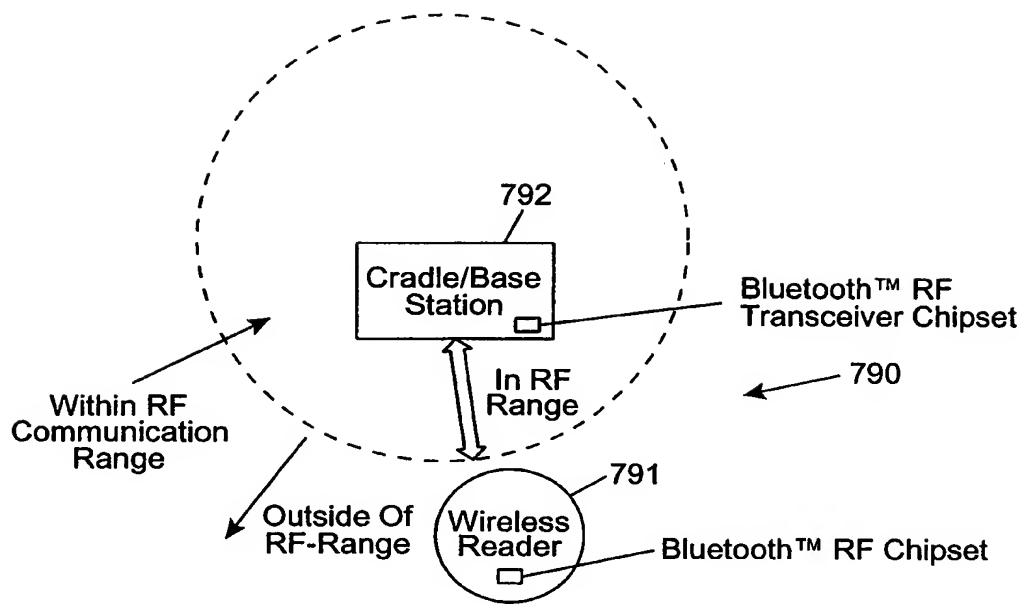


FIG. 44A1

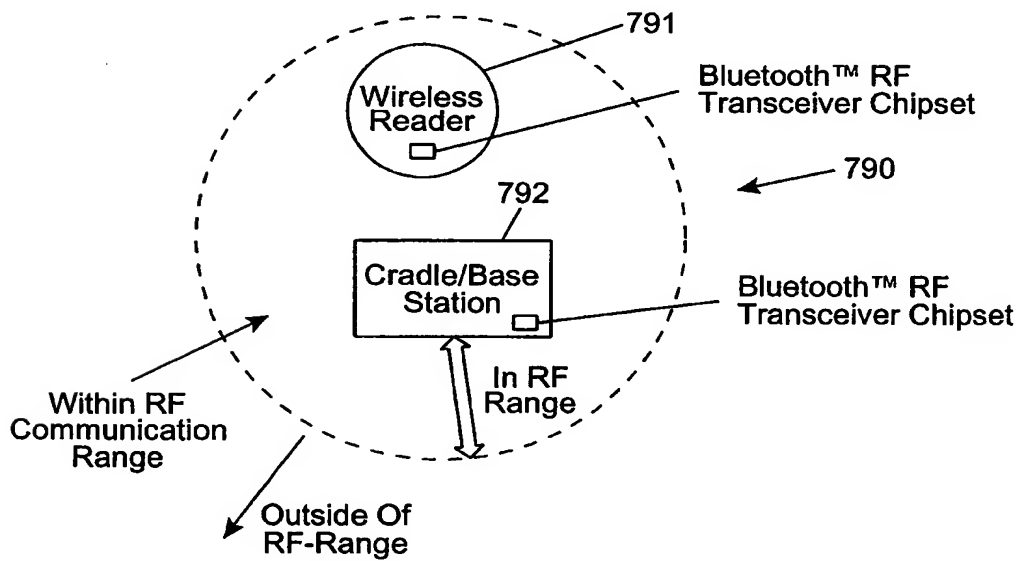


FIG. 44A2

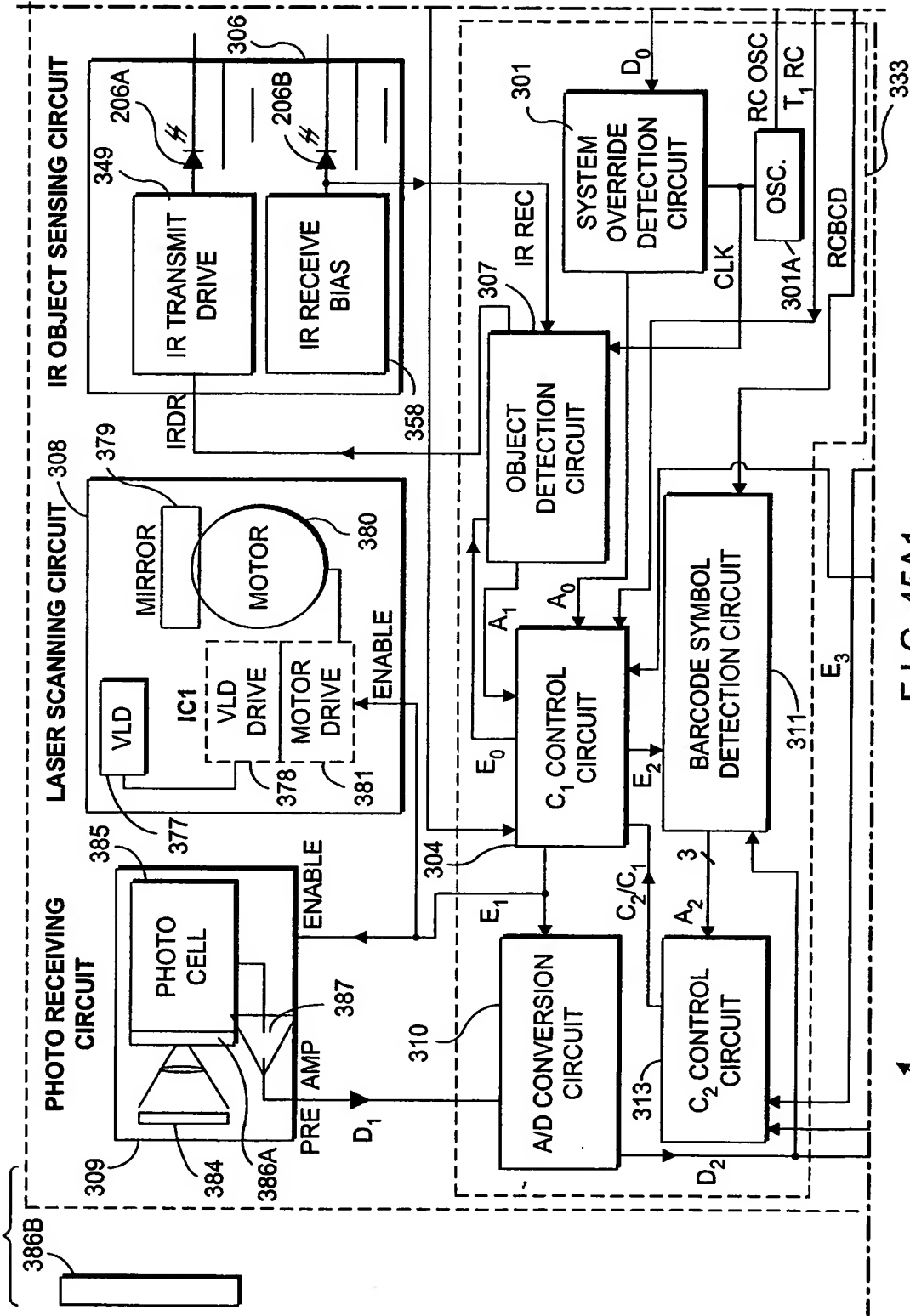
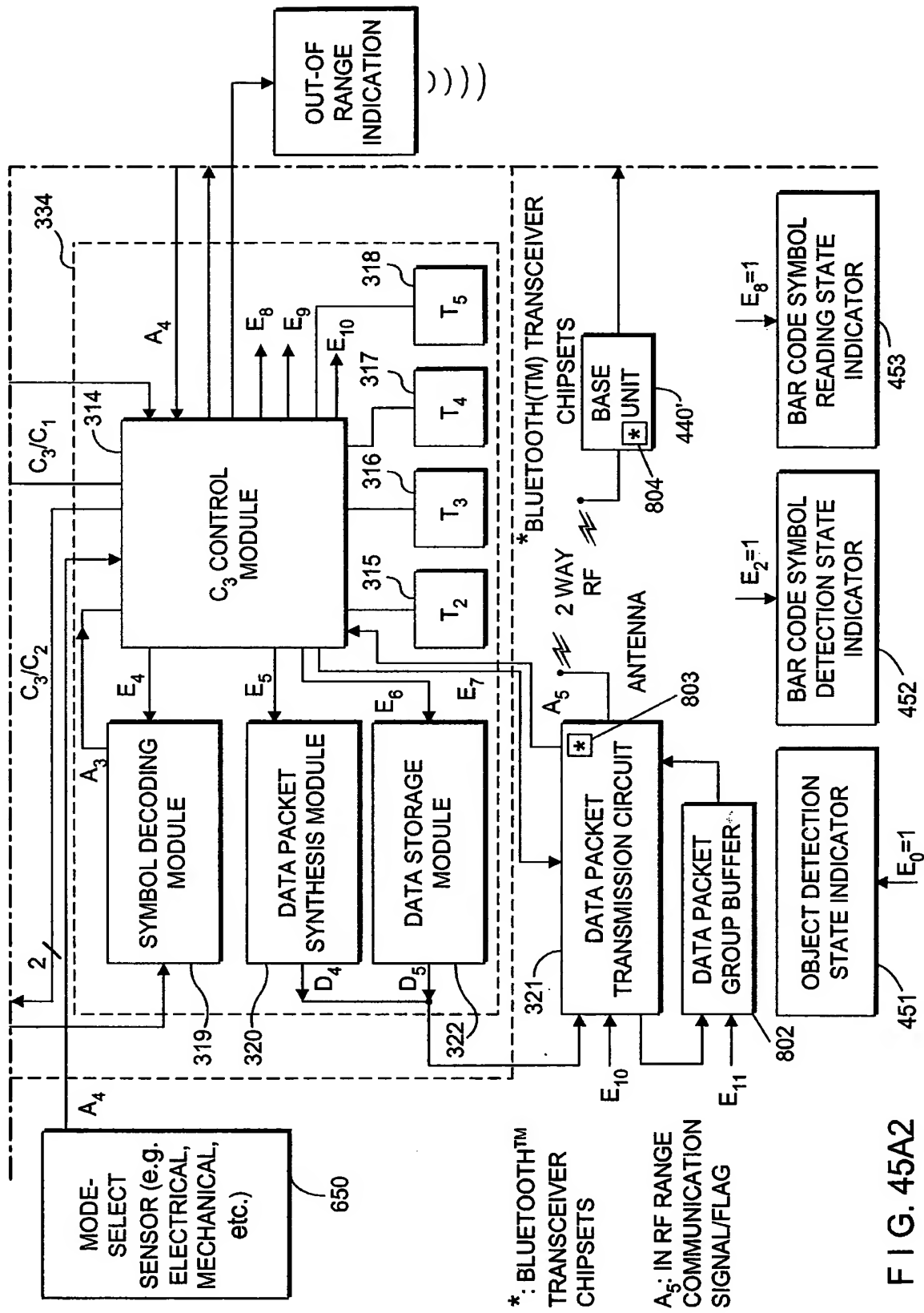


FIG. 45A1



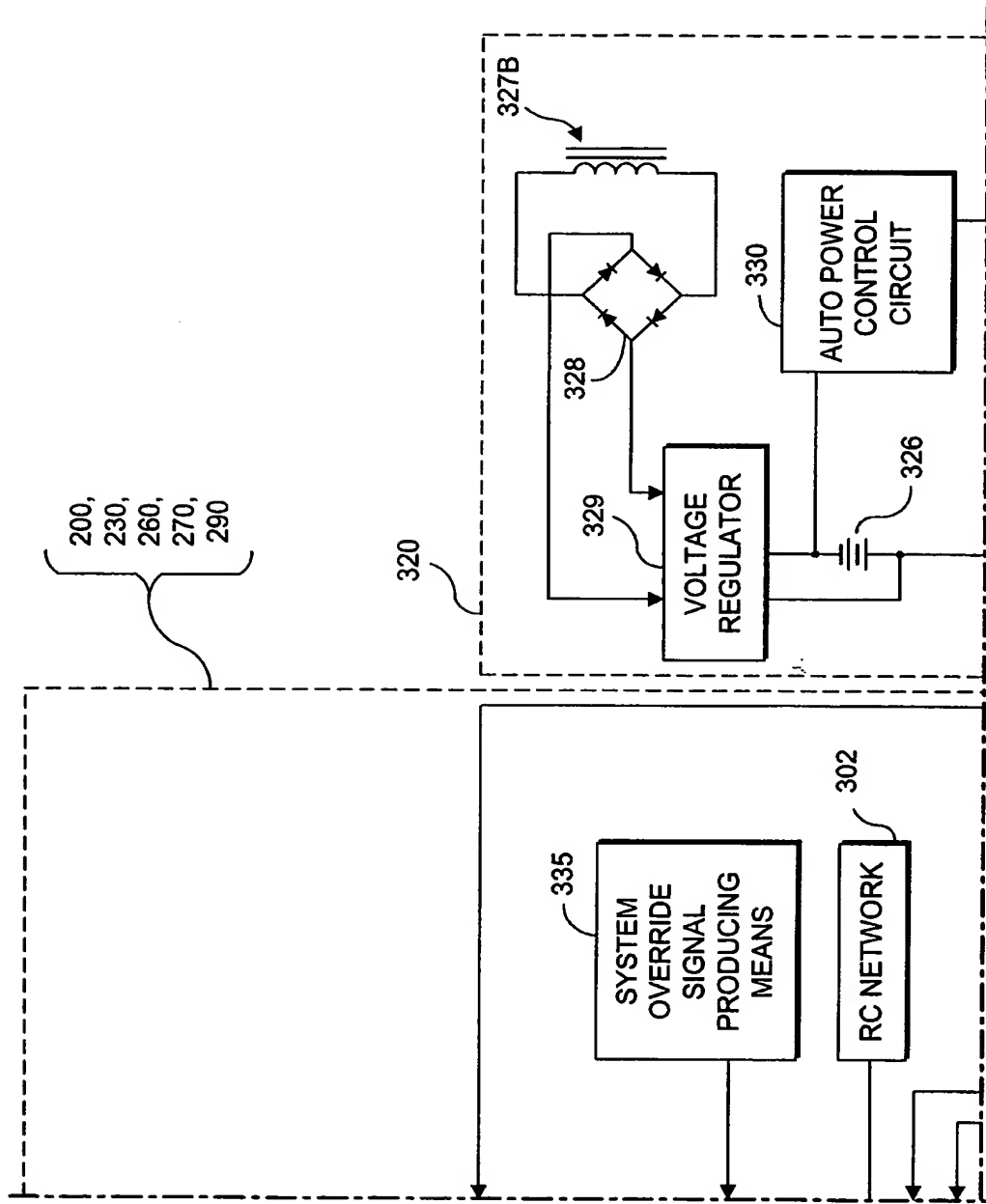


FIG. 45A3

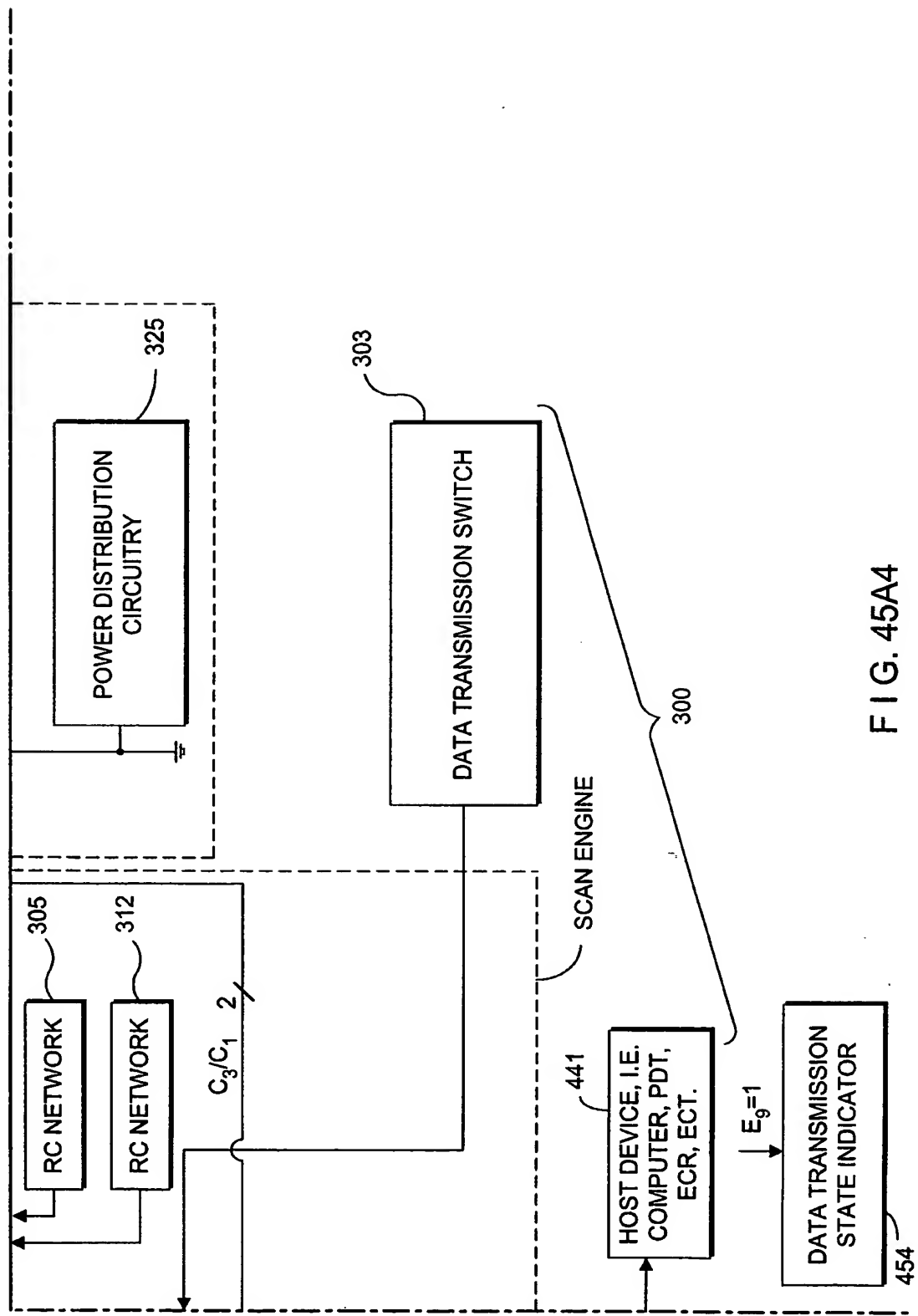


FIG. 45A4

"Direct-Contact Charge Technique"

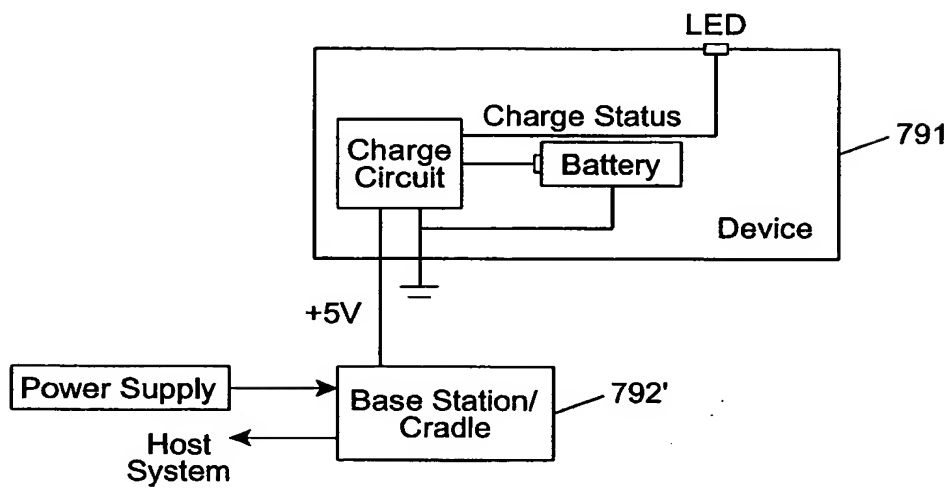


FIG. 45B

DATA PACKET TRANSMISSION VIA 2-WAY RF WITH
AUTOMATIC RF-RANGE DEPENDENT CONTROL

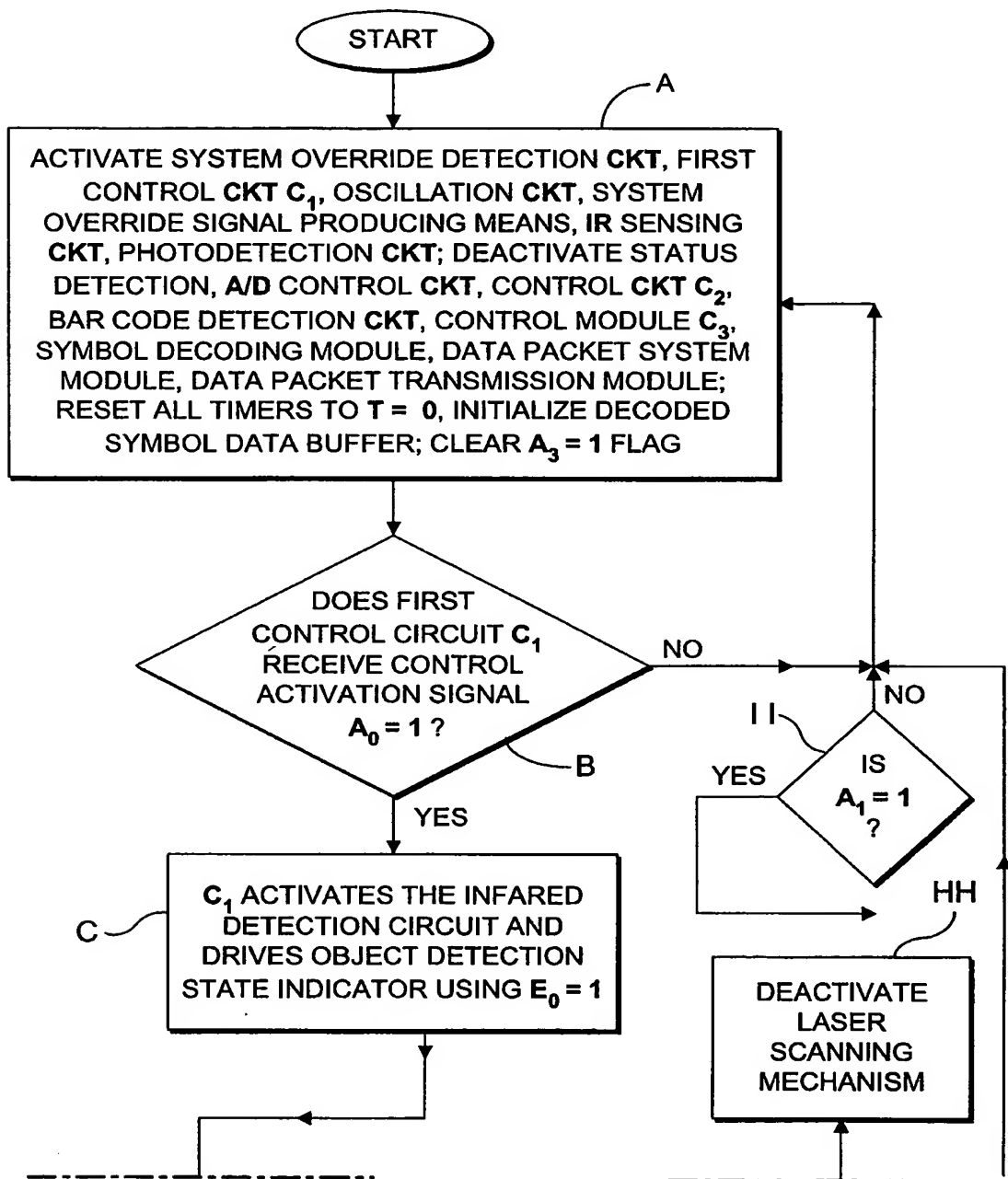
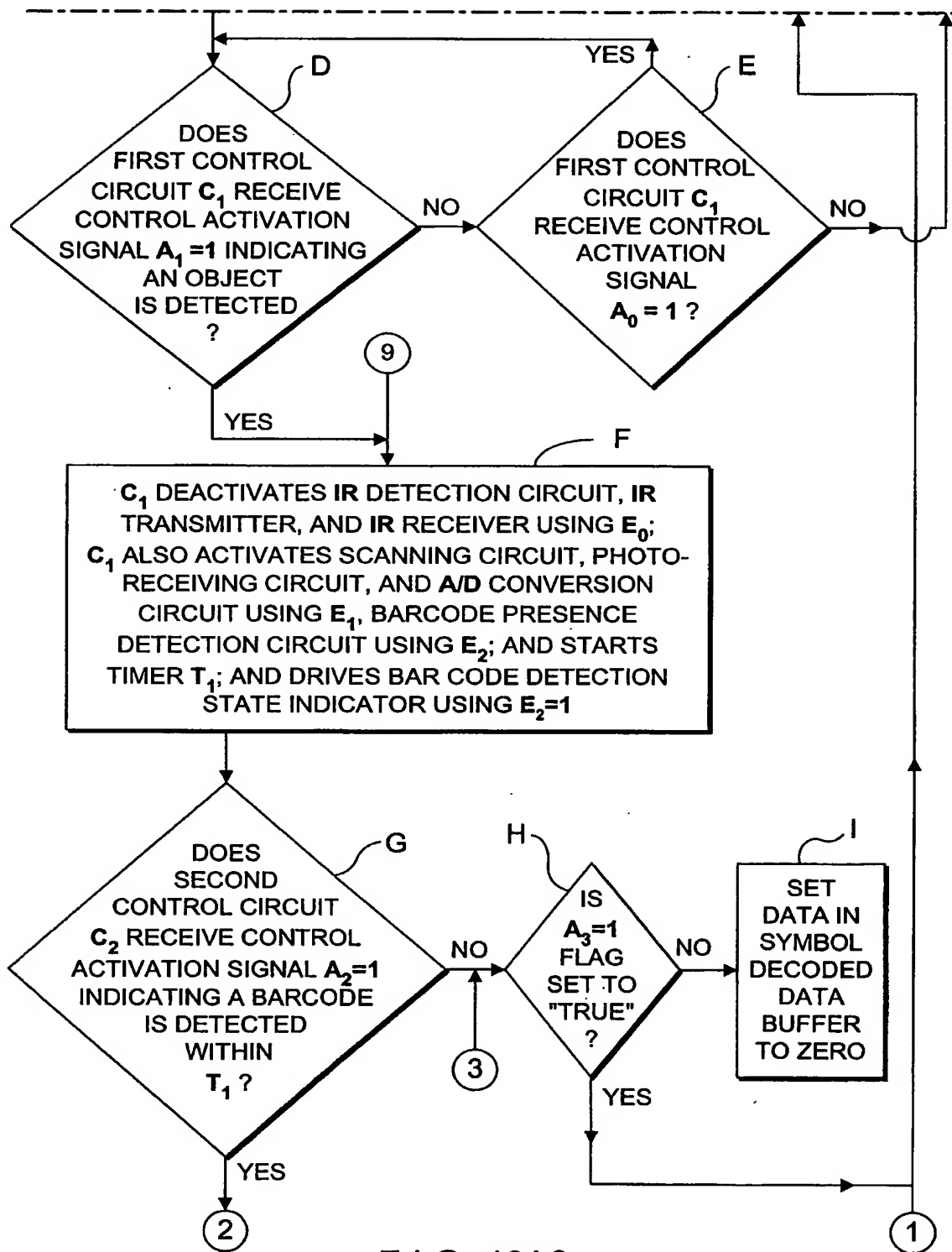


FIG. 46A1



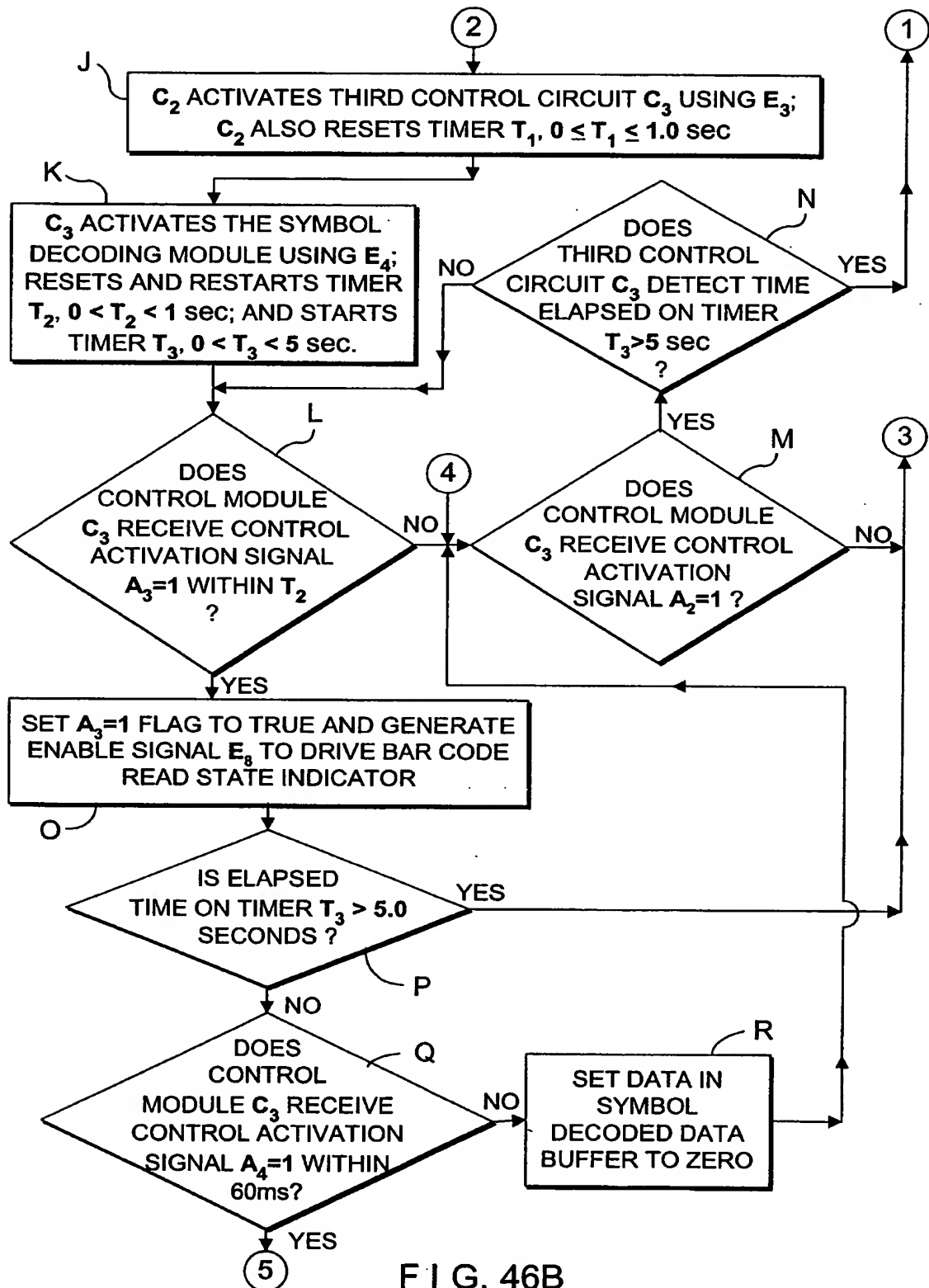


FIG. 46B

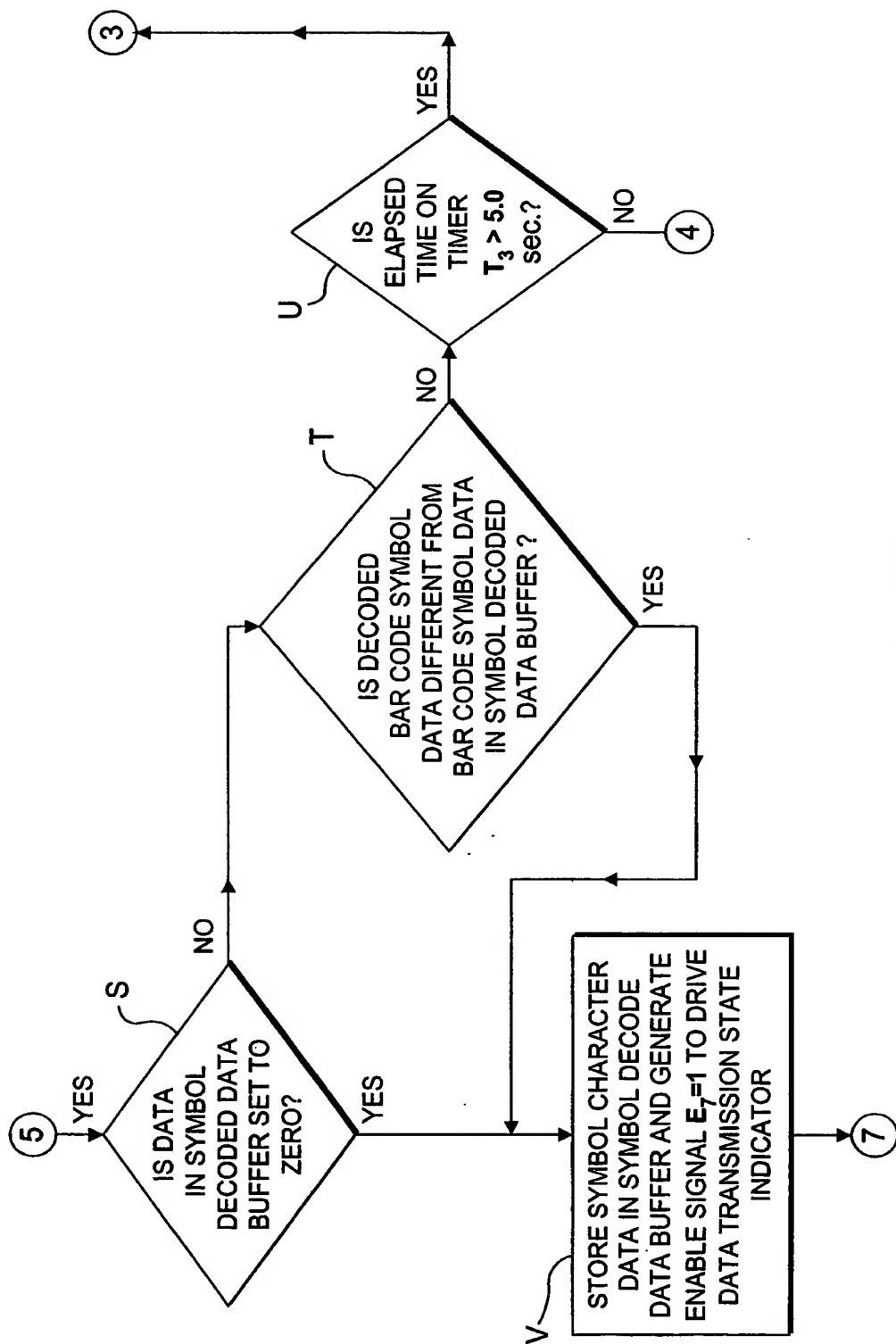
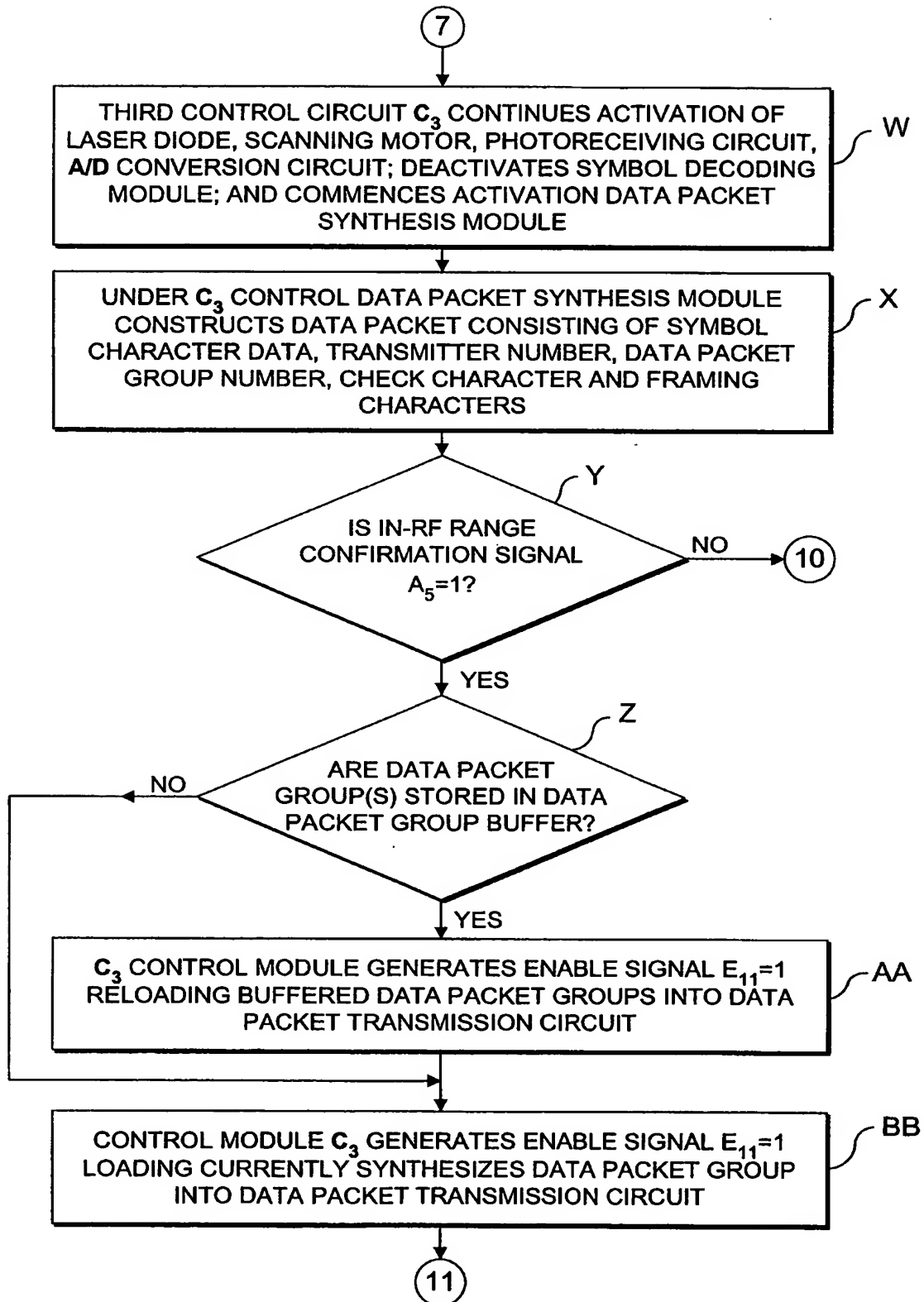


FIG. 46C1



F I G. 46C2

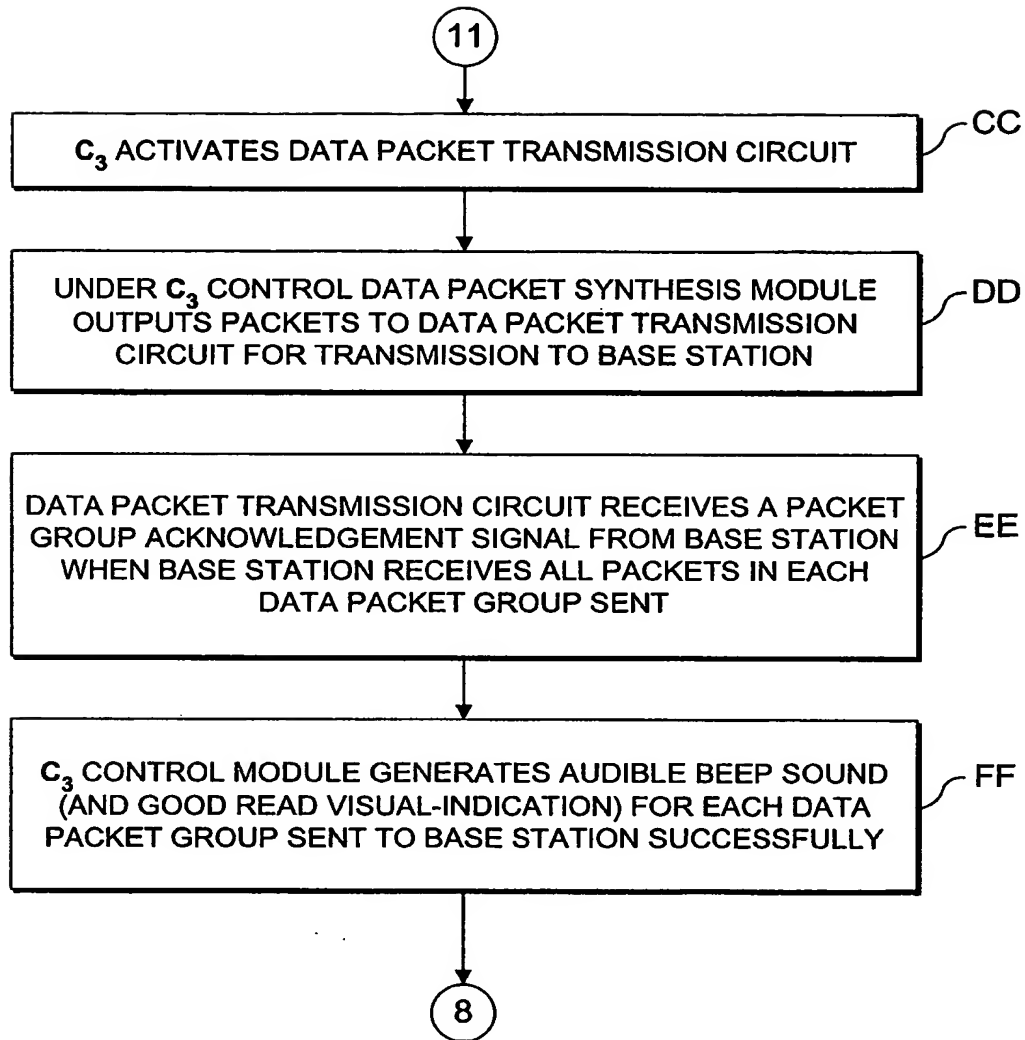


FIG. 46C3

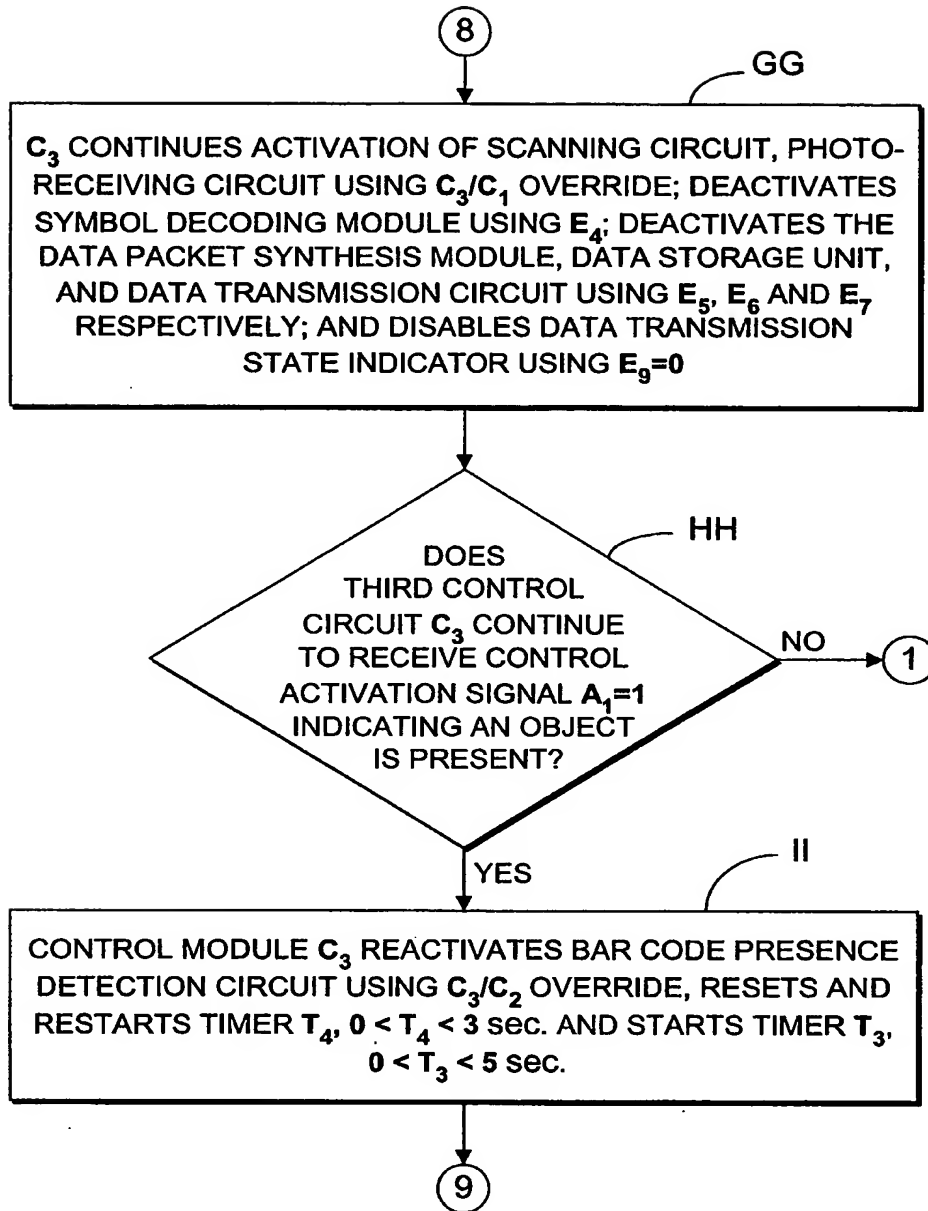


FIG. 46C4

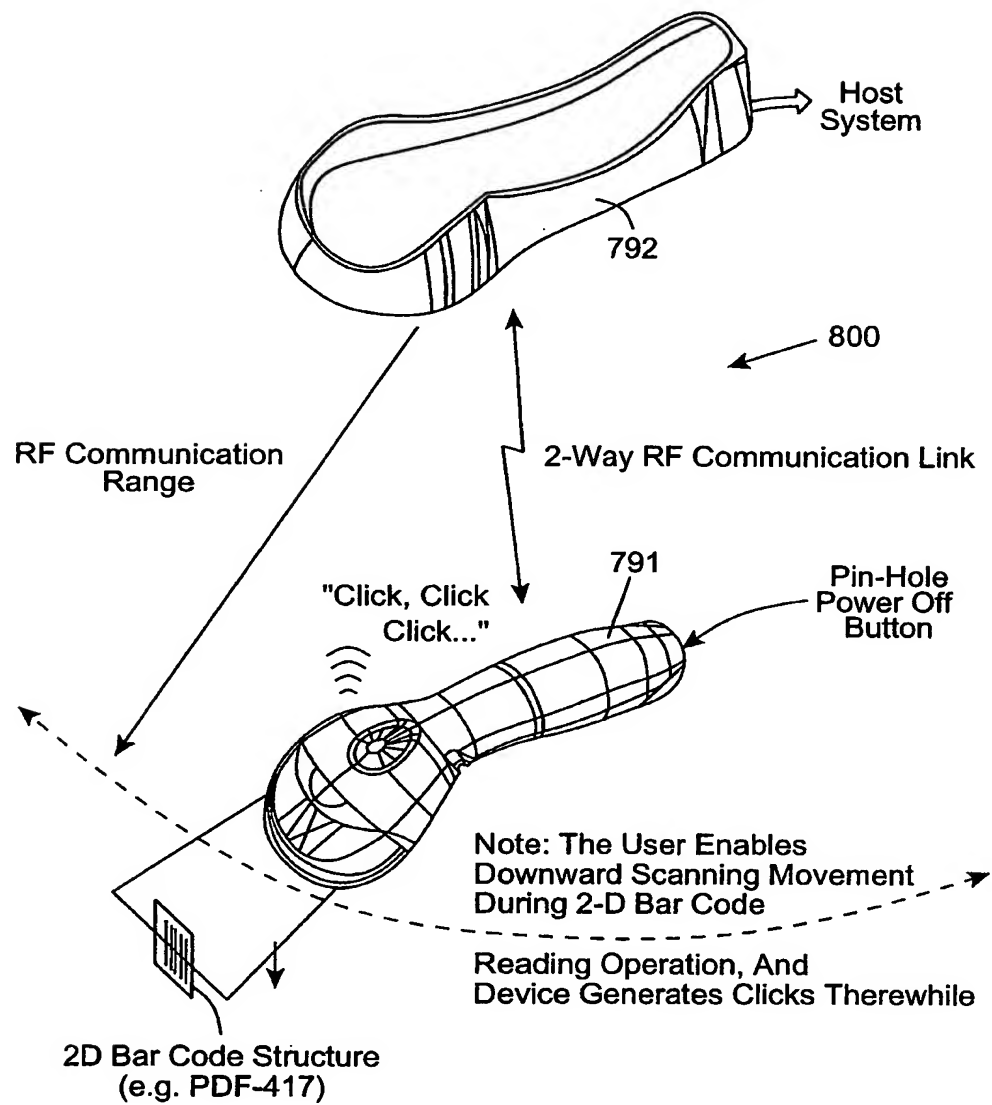


FIG. 47

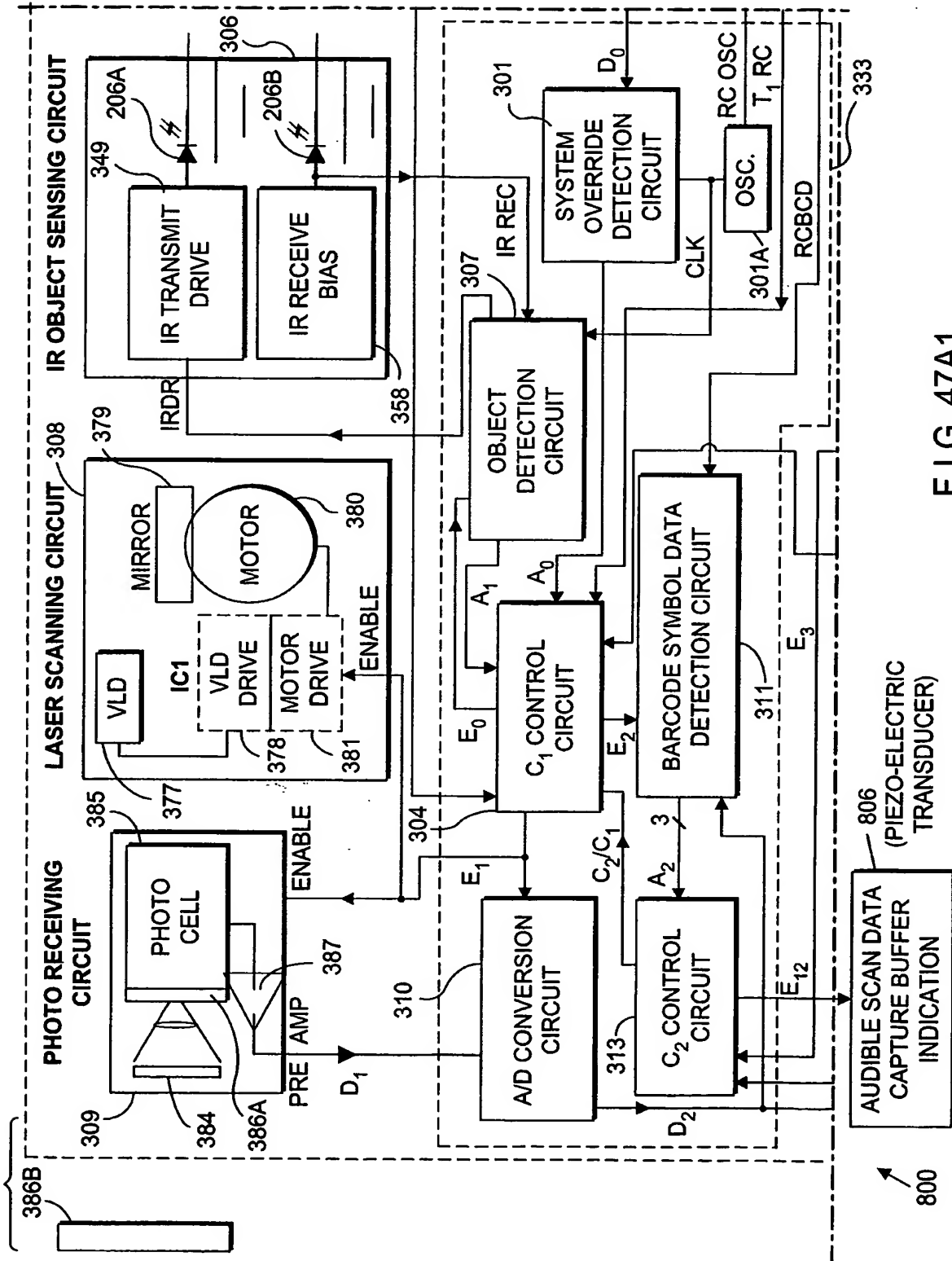


FIG. 47A1

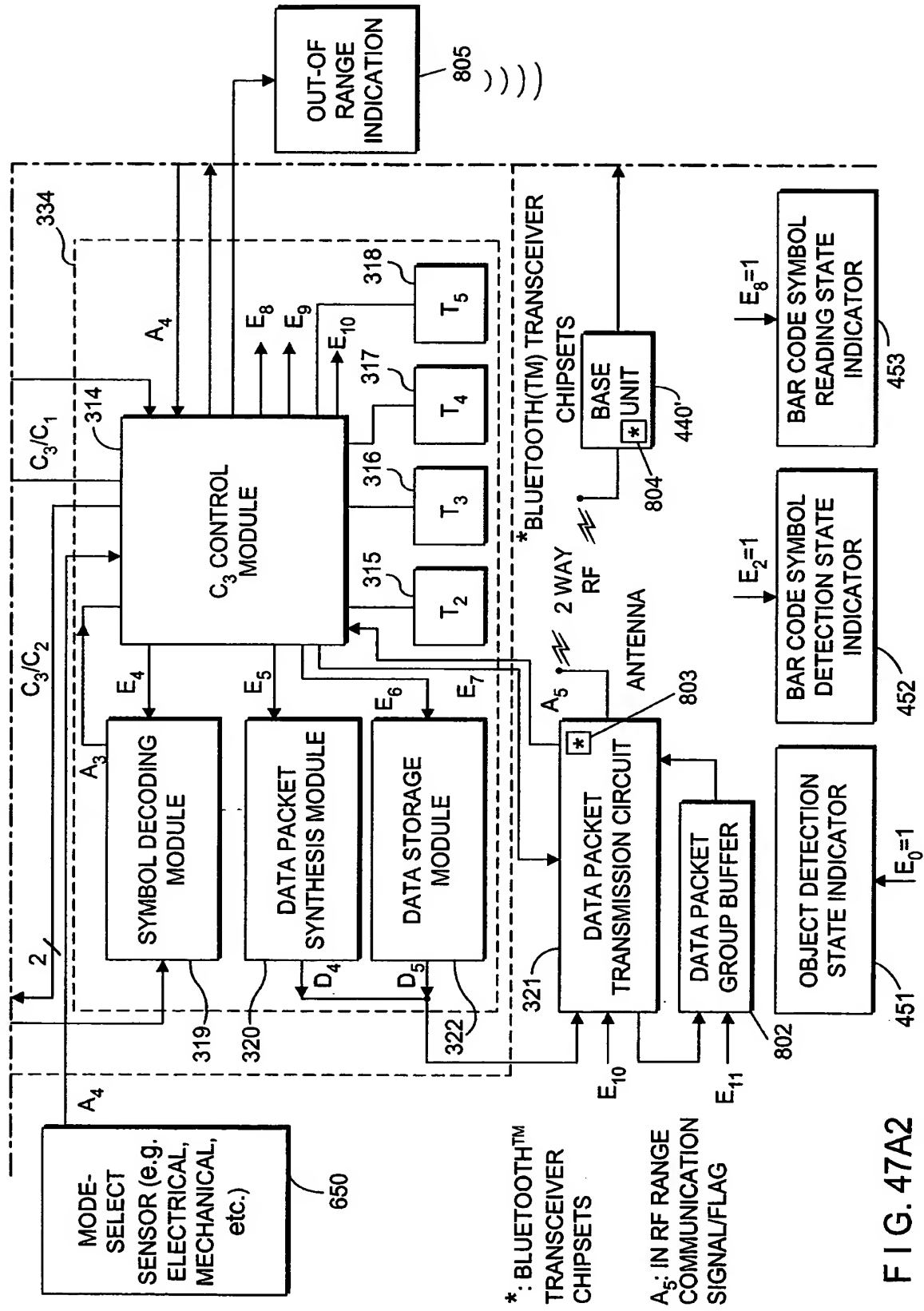


FIG. 47A2

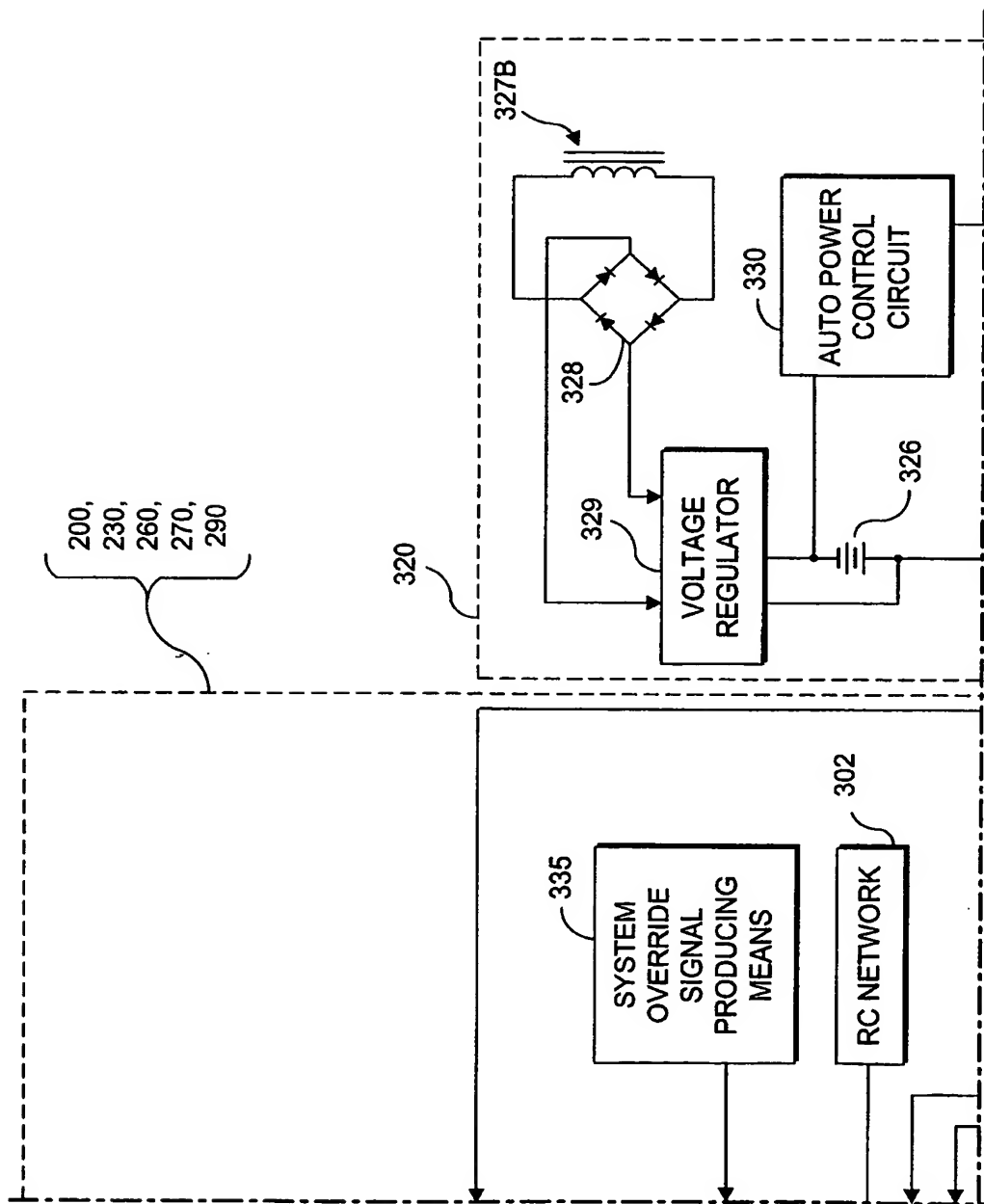


FIG. 47A3

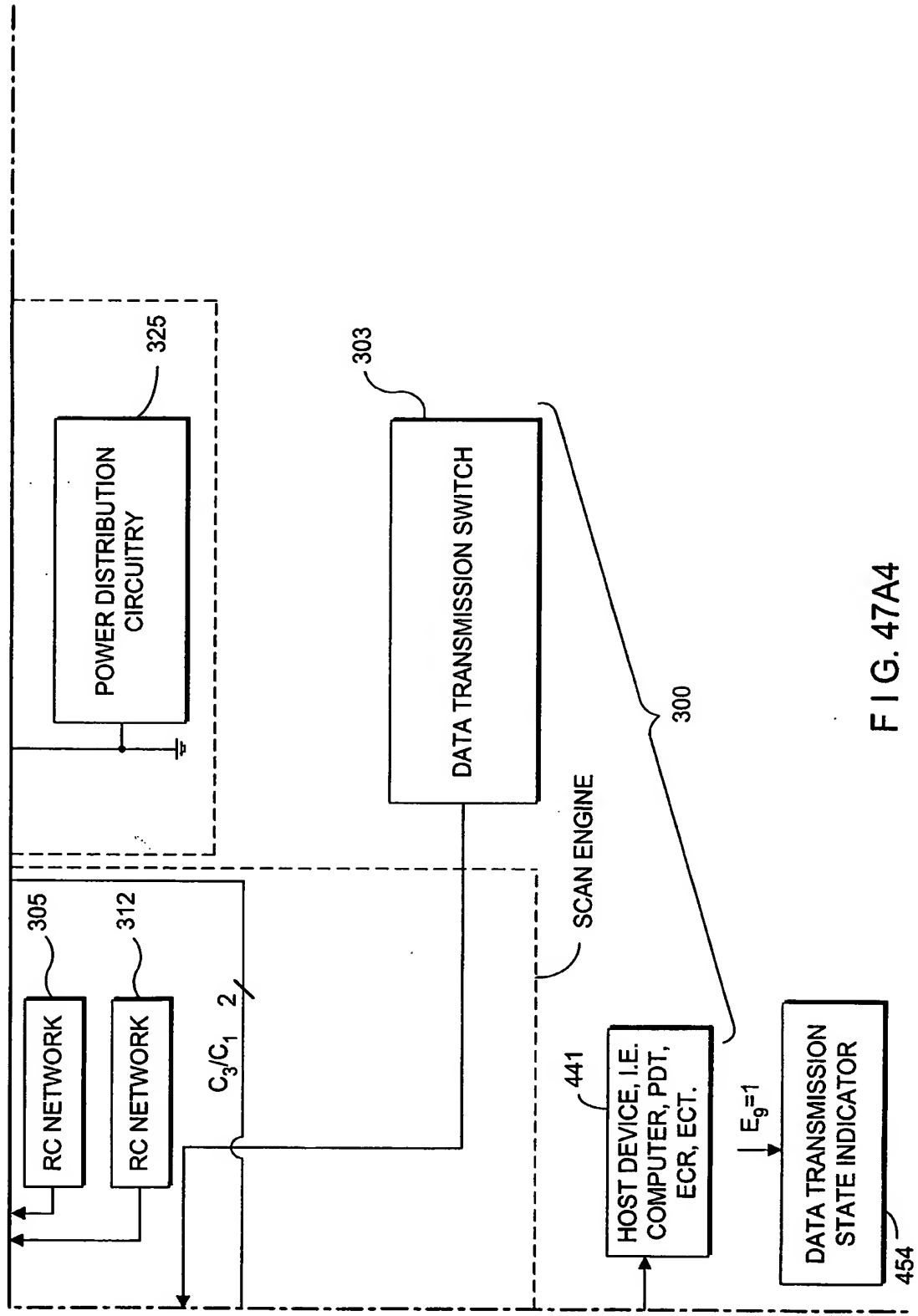


FIG. 47A4

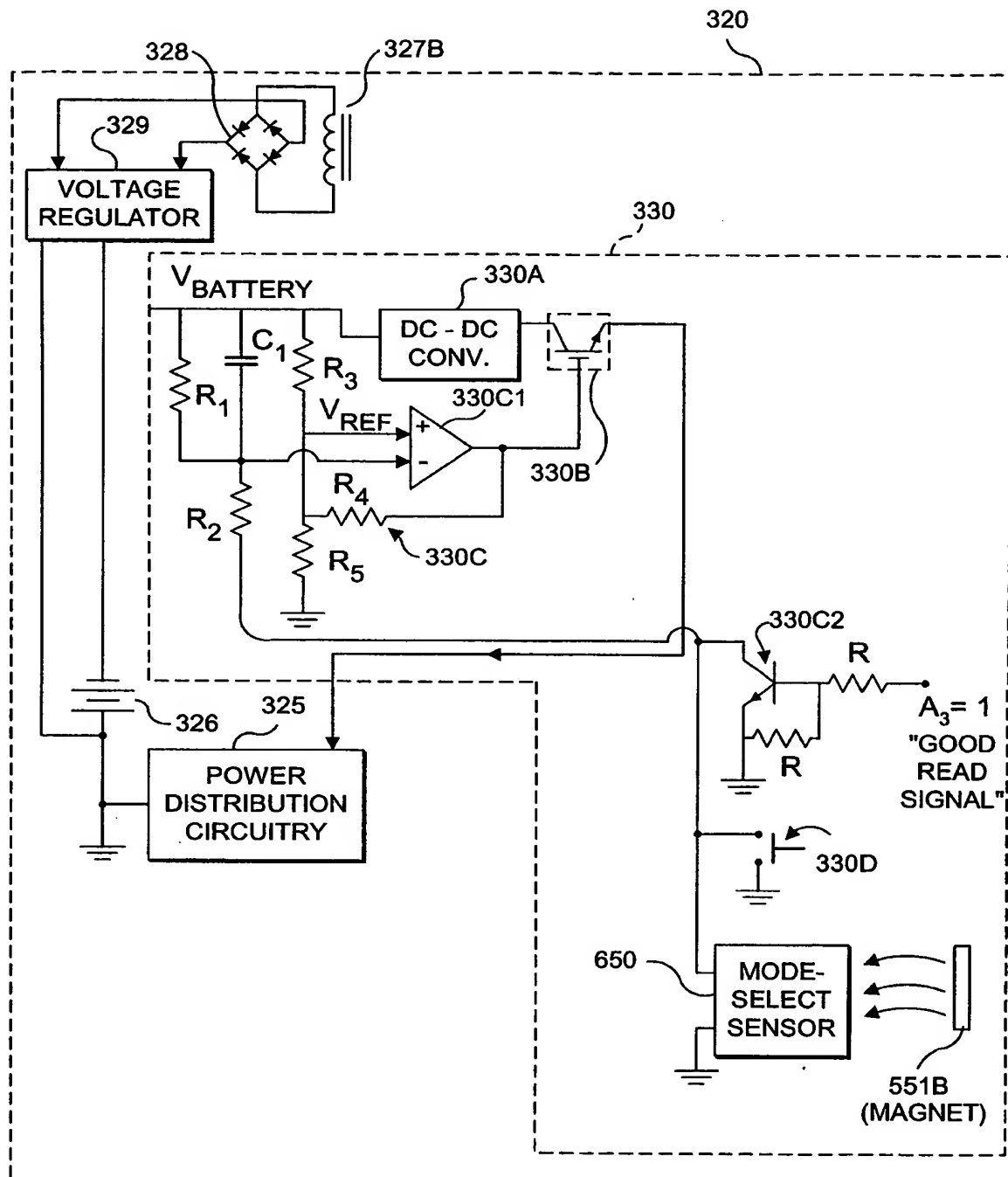


FIG. 47B

PDF DATA PACKET TRANSMISSION VIA 2-WAY RF WITH
AUTOMATIC RF-RANGE DEPENDENT CONTROL
(2-D READING MODE)

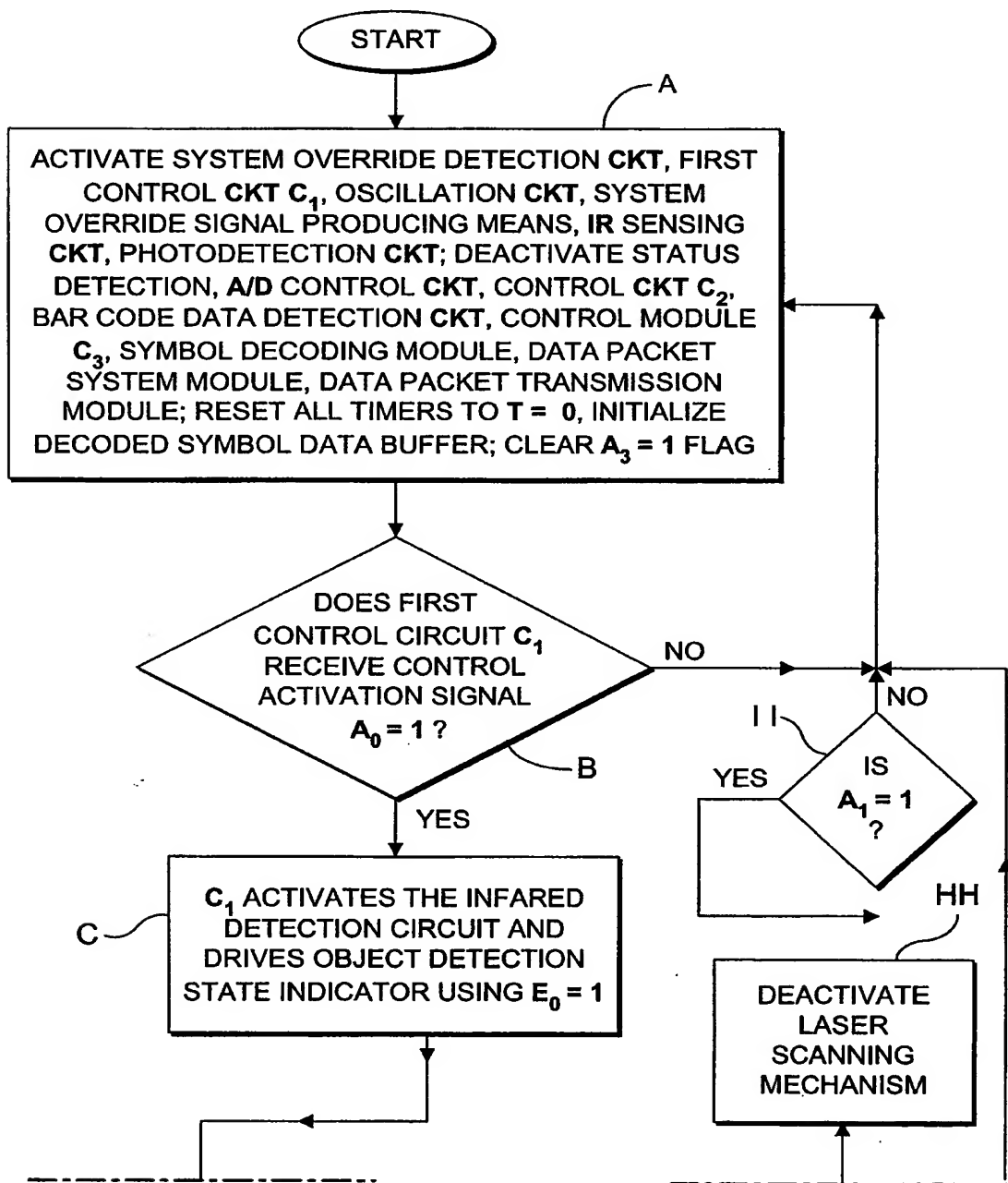


FIG. 48A1

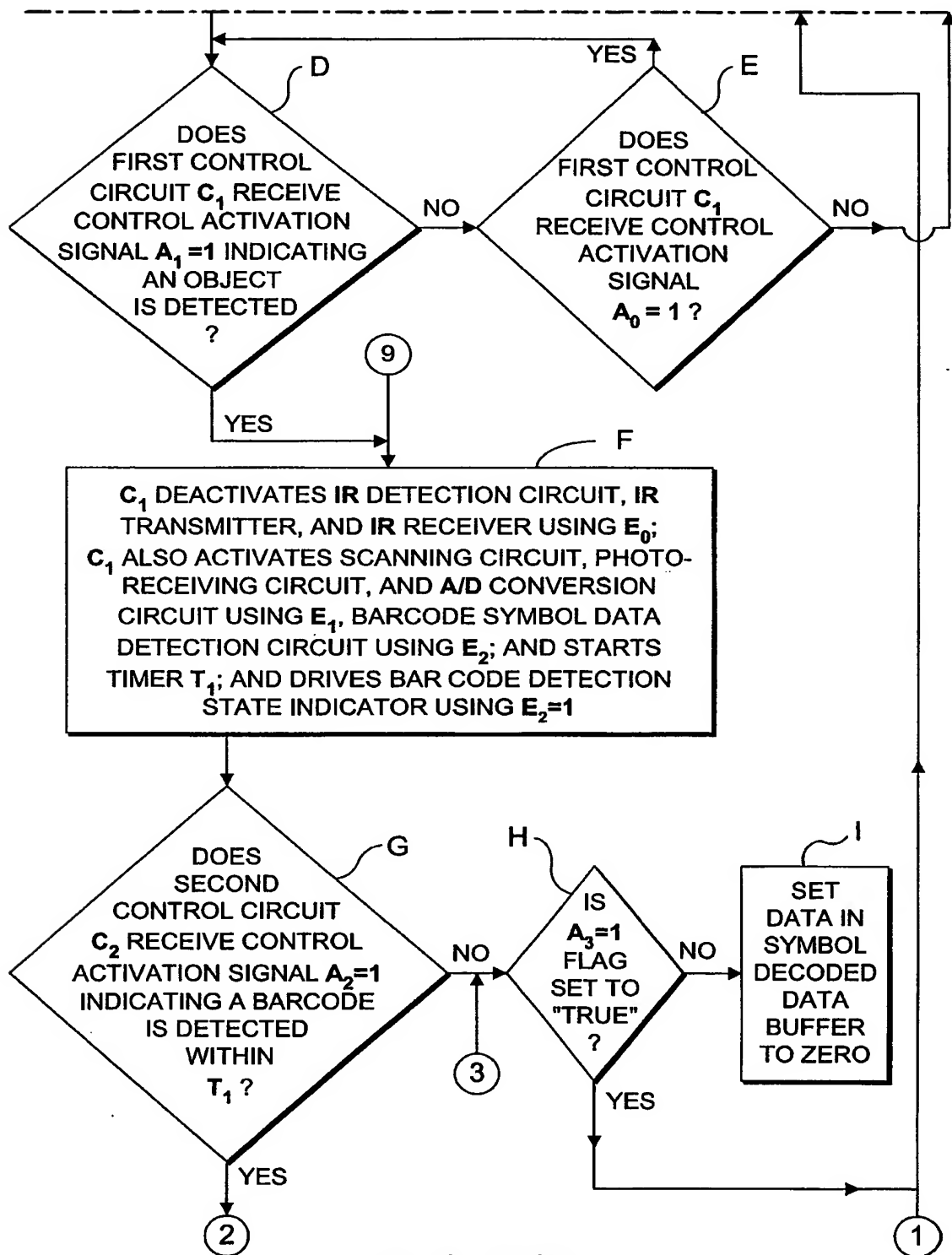


FIG. 48A2

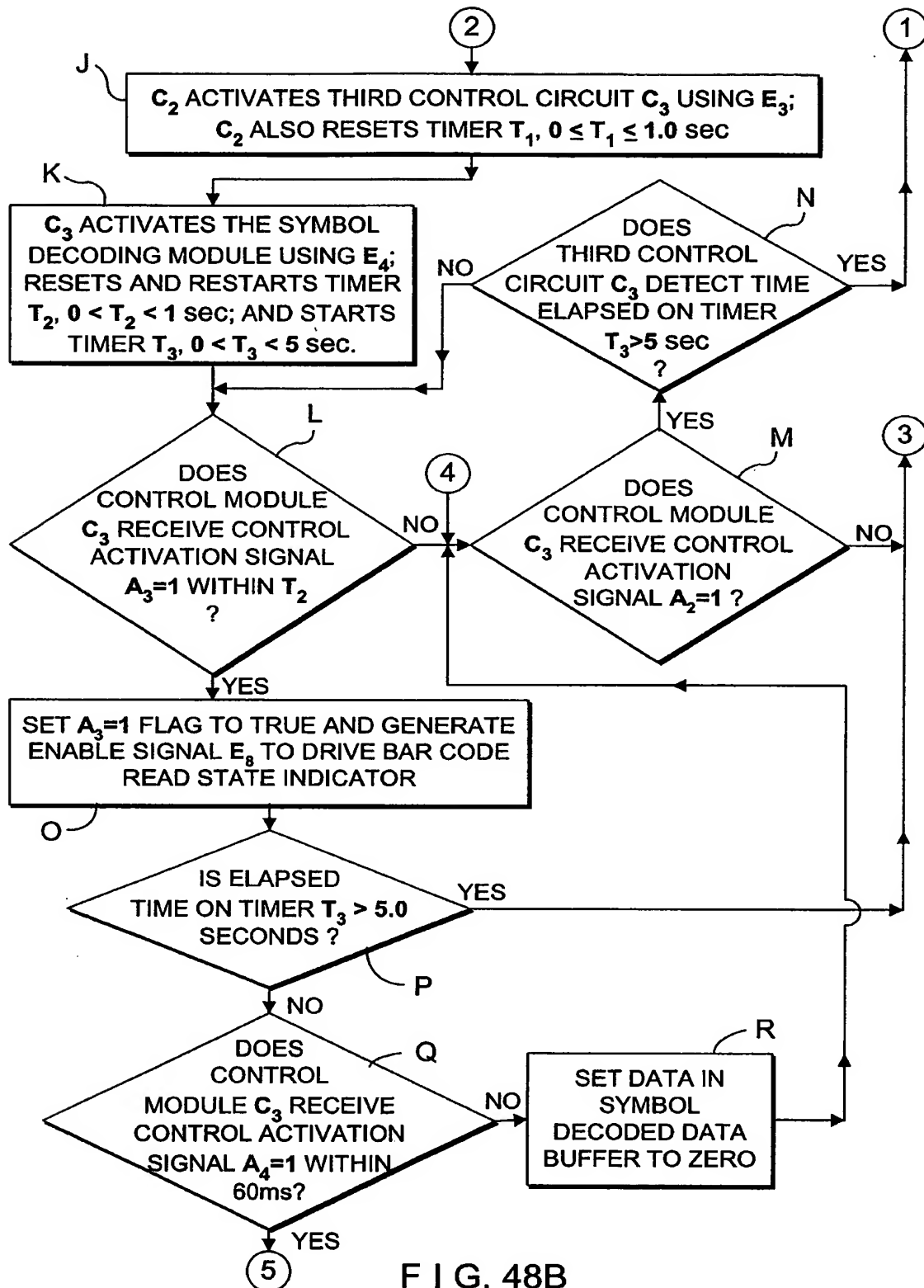


FIG. 48B

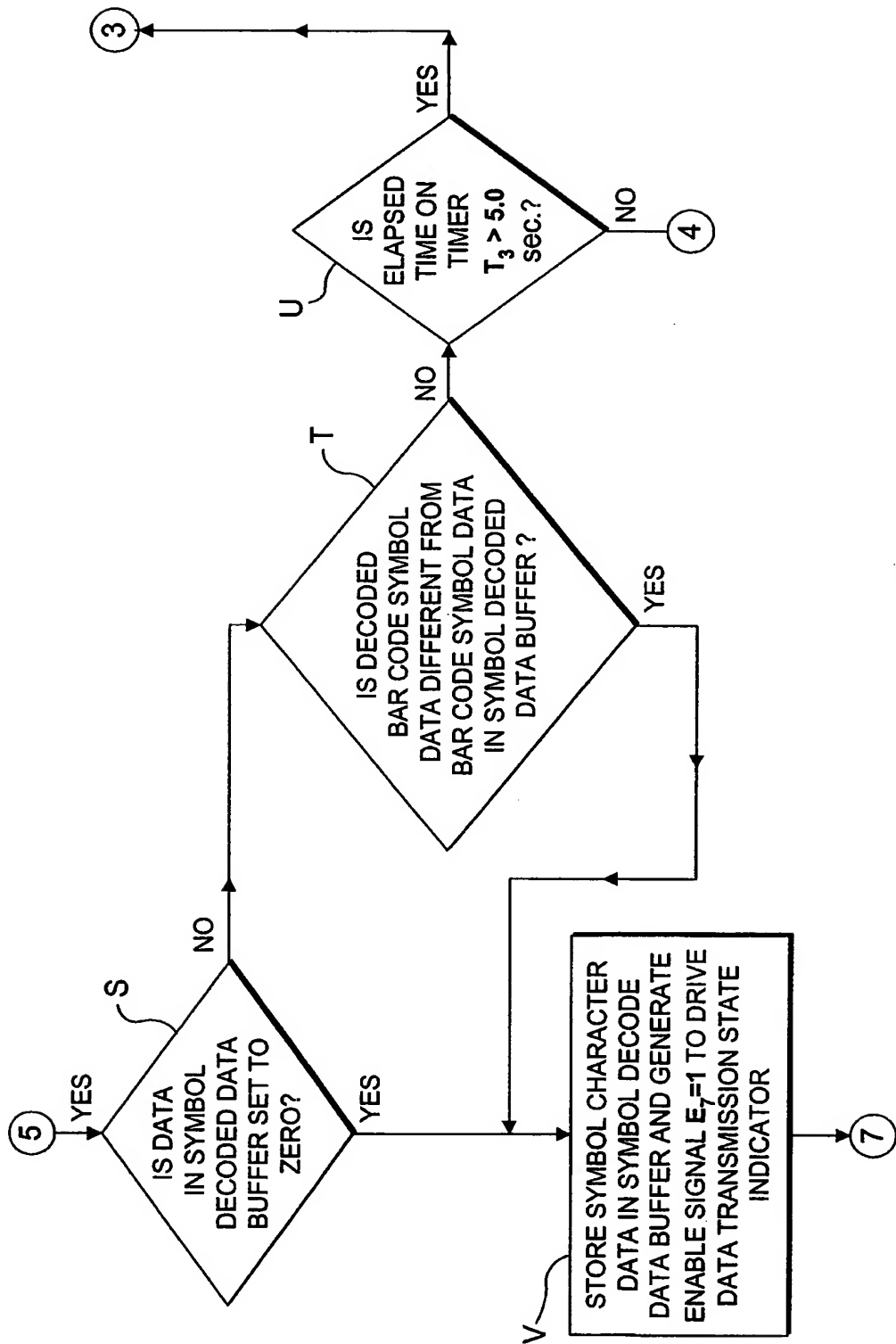


FIG. 48C1

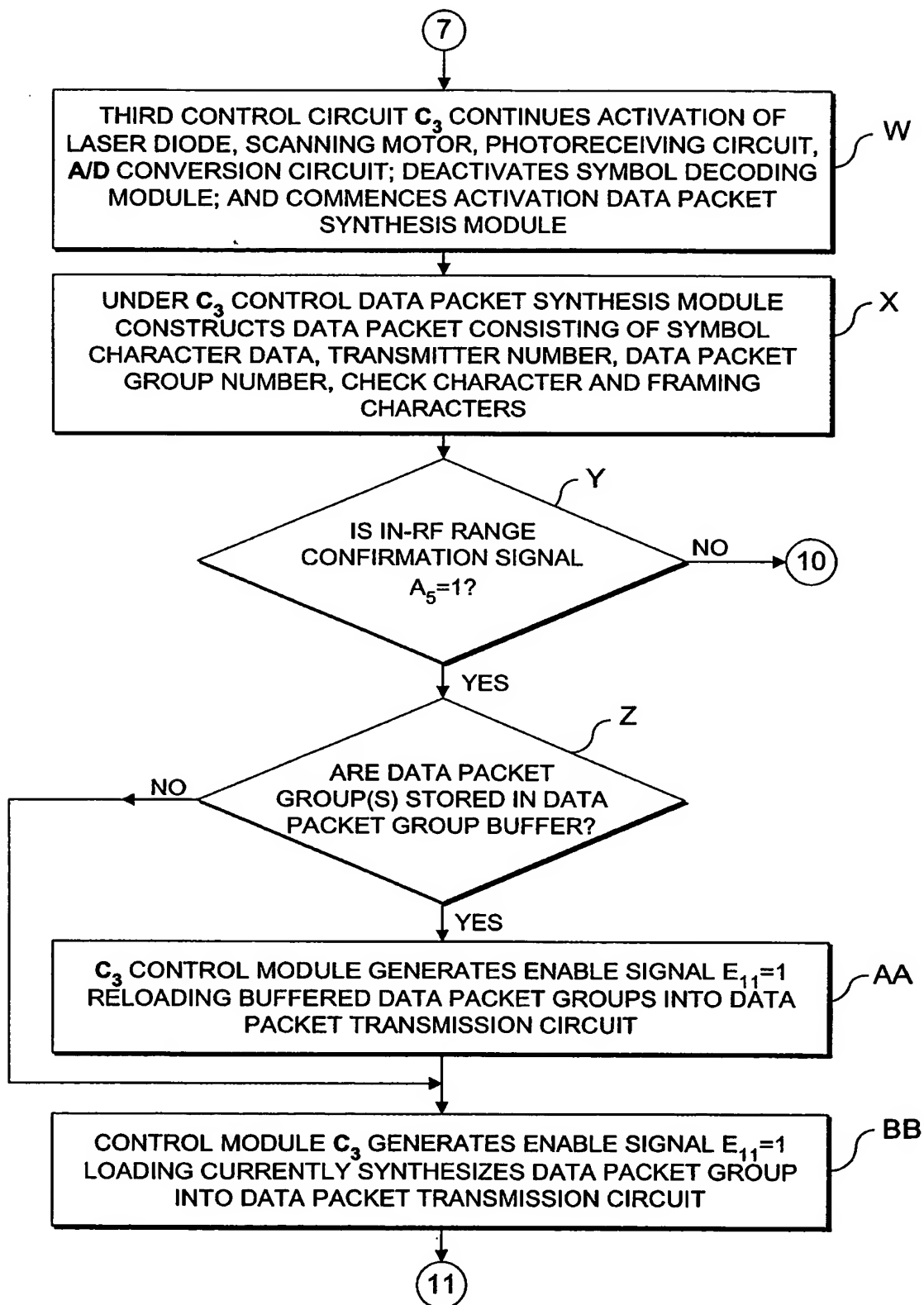


FIG. 48C2

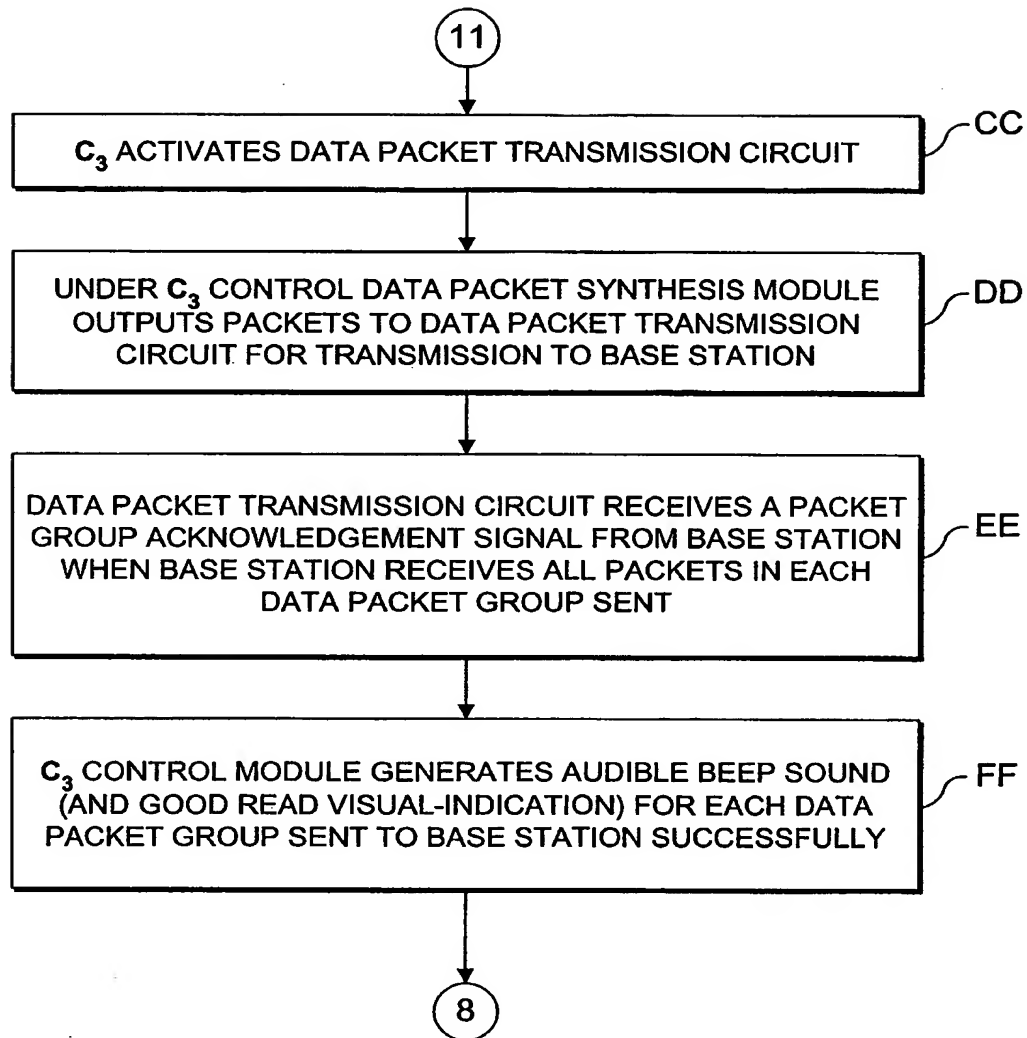


FIG. 48C3

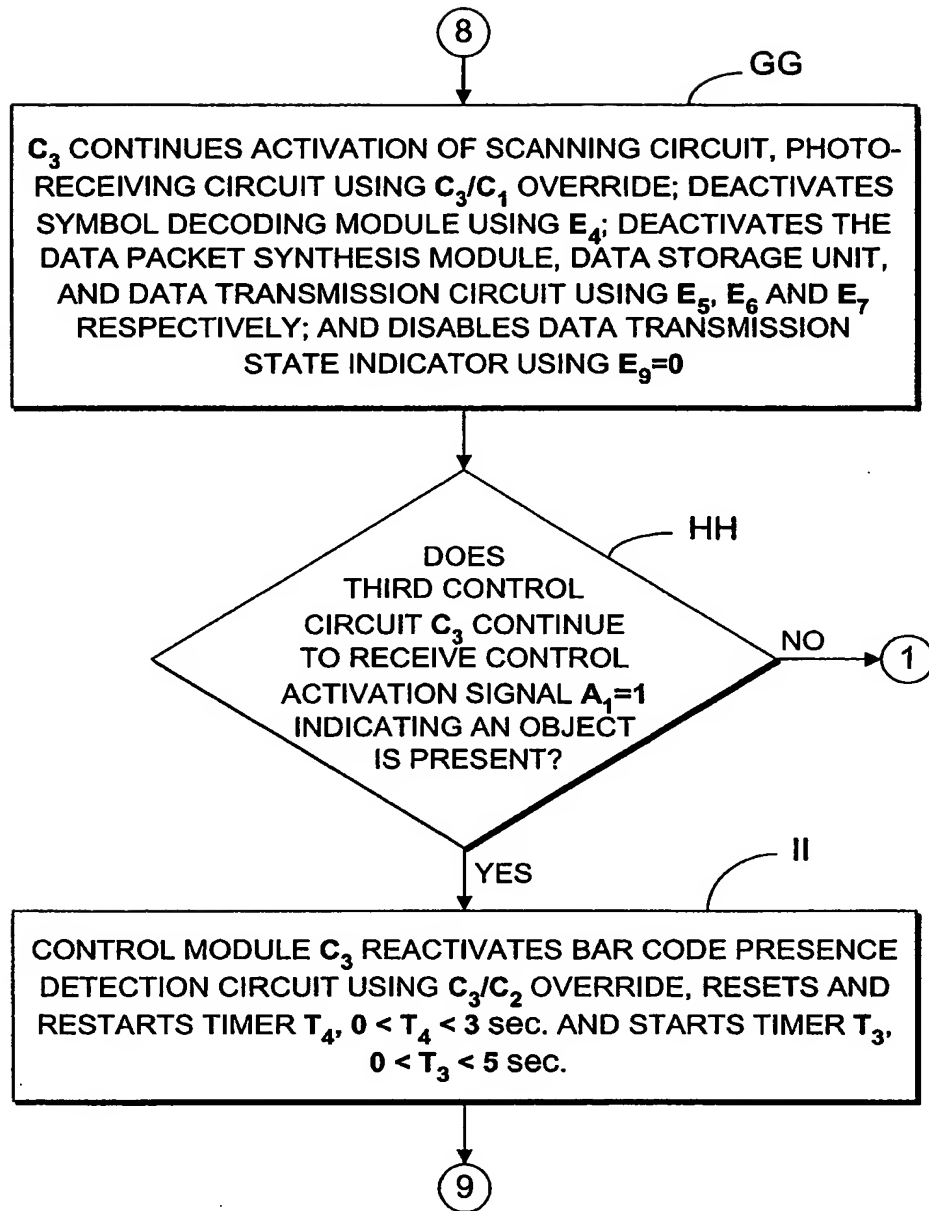


FIG. 48C4